A. I. A. File No. 31-F-37

MODERN ILLUMINATING GLASSWARE

KOPP GLASS INC.

SWISSVALE, PA.

CATALOG
No. 41

A. I. A. File No. 31-F-37

Foreword

WE take pleasure in presenting to you this Catalog illustrating our General Line of Illuminating Glassware for Commercial and Residential Lighting.

We manufacture a very extensive line of Illuminating Glassware in Modernistic and Gothic designs, as well as Conventional effects, for Schools, Colleges, Churches, Hospitals, Commercial and other Public Buildings; also for Residential lighting. These goods are made in various kinds of Glass, such as our well known Delica White Cased, Daylight Cased, Alabaster Cased, Nicco Opal Heat Resisting, Ivory, Amber and Crystal, a complete description of which is given on page preceding page one of this Catalog.

All of our Lighting Units have been scientifically designed to give the most light, and proper diffusion, for a given wattage. We feel that we can offer you Lighting Units that in shape and decoration are harmonious and pleasing as well as highly efficient.

It is our policy to make a product of quality and merit, at reasonable prices, rather than inferior merchandise at lower prices. Considering the efficiency and service obtained from our Units we believe they will prove to be the most economical.

We have a very modern Plant, with the latest equipment, and employ only highly skilled and experienced workmen, as well as men of Science and Art, which enables us to offer the Trade the highest quality merchandise from a scientific as well as an artistic point of view. This, we feel, permits us to properly meet the rigid requirements of—"Light Conditioning with Glass".

Our position today in the Lighting Field has been attained by the application of skill and useful knowledge gained from many years of practical experience and untiring efforts in developing new Glasses, and the creating of new Designs in all kinds of Illuminating Glassware.

We have illustrated in this Catalog our General Line of Illuminating Glassware, but we are also quite proud of the reputation we have acquired with our various Colored Glasses now in use throughout the Country in Railroad, Marine, Aeroplane and Traffic Signal Lights, made to scientific standards and specifications, as well as other Glasses for industrial and technical uses.

We also manufacture Street Lighting Globes, as well as Pressed Crystal Parts for use in Lamps and Fixtures: these are of the highest quality. If interested in any of these special lines, on request from you we will gladly forward illustrations, prices, and any other information desired.

KOPP GLASS, INCORPORATED

DEC 2 - 1938

Illuminating Glassware

Modernistic Designs—Lighting Units, Nicco Opal and Delica White Cased Glass.
Pages 1, 2, 3, 5, 15, 16 and 17.

Gothic Design—Lighting Units, Nicco Opal and Ivory Glass.
Pages 19, 20 and 21.

Conventional Designs—Lighting Units, Delica White Cased, Daylight Cased, Alabaster Cased, and Nicco Opal Glass.
Pages 4, 7, 8, 11, 13 and 14.

Crystal Bottom Units—Nicco Opal and Crystal Glass.
Pages 25 and 26.

Spreadlight Units—Crystal Glass, White Enameled.
Pages 23 and 24.

Kitchen, Bedroom, and Bathroom Shades—Pages 17, 23, 24, 27, 28, 29 and 30.

Special, and Balls, Shades, Bowls and Cylinders—Pages 4, 31, 32 and 33.

Exit and Sign Globes—Pages 34 and 35.

Sales Representatives

C. A. Kraft	333 Rutland Road, Brooklyn, N. Y.
Rudolph H. Soukup	1260 Merchandise Mart, Chicago, Ill.
E. I. Simmons	101 Oak Drive, Catonsville, Md.
J. L. Stone	1933 E. 24th St., Brooklyn, N. Y.
H. C. Dalton	65 High St., Boston, Mass.
W. E. Hawkins	1374 Nottingham Road, Detroit, Mich.
R. V. Hughes	911 Locust St., St. Louis, Mo.
A. P. Rosenstock & Son	4437 Gillham Road, Kansas City, Mo.
David Schneider	89 Kenyon Building, Louisville, Ky.
Eaco, Incorporated	500 Camp St., New Orleans, La.
George H. Egan	301 N. Market St., Dallas, Tex.
Carl Kohn	930 E. VanBuren St., Phoenix, Ariz.
B. & R. Electric Co.	1414 Glenarm Place, Denver, Colo.
W. E. Welborne	2835 W. Pico St., Los Angeles, Cal.
F. J. Stone	1247 Chestnut St., San Francisco, Cal.
Joseph Paulson	1720 N. E. Sixth Ave., Portland, Ore.
McLaughlin Sales Co.	14 Second Ave., S. E., Aberdeen, S. Dak.
G. E. Wehner	1739 Stratmore Ave., Crafton, Pittsburgh, Pa.
David Wilson	5088 Dundas Highway, Islington, Ontario, Canada
H. P. M. Carter	102 Willowdale Ave., Outremont, Montreal, Canada
Bourchier-Dalma Commercial Co.	Uruguay 48, Mexico City, Mex.
Ramon Robaina	Obispo 68, Havana, Cuba

R. H. Blackall ..... 1 East 42nd Street, New York City

Industrial Glass Specialties and Signal Glass of all Kinds

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For Prices of Glassware illustrated in Catalog No. 41, See Price List No. 41.

We give you below a description of the various Glasses we produce

Delica White Cased Glass

Delica White Cased Glass, designated by letter "D". On account of the process employed in making Delica White Cased Glass, viz., that of casing or spreading Crystal Glass over a fine film of high grade Pure White Glass, we obtain a Glass of greatest diffusion and smallest absorption, with a highly polished surface. A simple test to show the delicacy of this Glass is to lay a piece of printed matter against the inner surface of the Glass and you will note that it can be easily read, which cannot be done with other Glasses.

Nicco Opal Glass

Nicco Opal Glass, designated by letter "N". Our Nicco Opal Heat Resisting Glass is also a Glass of special merit and should not be confused with ordinary Opal Glass. It is also the result of years of experiments, and we do not hesitate to say that it is the strongest Glass on the market to-day. Besides having a low absorption and good diffusion it will also withstand various changes in temperature, and has proven highly satisfactory in places where Glass is exposed to changes of the elements. We believe a trial of this Glass will convince you of the superiority we claim for it.

Daylight Cased Glass

Daylight Cased Glass, designated by letter "L". This Glass is produced by placing a thin film of highly diffusing white Glass under a blue tinted Crystal Glass, the light emitted giving daylight effect. It is especially suitable for Schools, Colleges, Offices, Department Stores, Factories, Drafting Rooms and other places where daylight illumination is desired. See Page 9 for further information pertaining to Daylight Glass.

Ivory Glass

Ivory Glass, designated by letter "I". This is not a Cased Glass, but a true Ivory Color Glass, having the same general properties as the Nicco Opal Heat Resisting Glass, and has been developed after exhaustive study and experiments. This Glass is more for decorative effect where a strong light is not desired. It is most suitable for Hospitals, Churches and special effects in interiors.

Alabaster Cased Glass

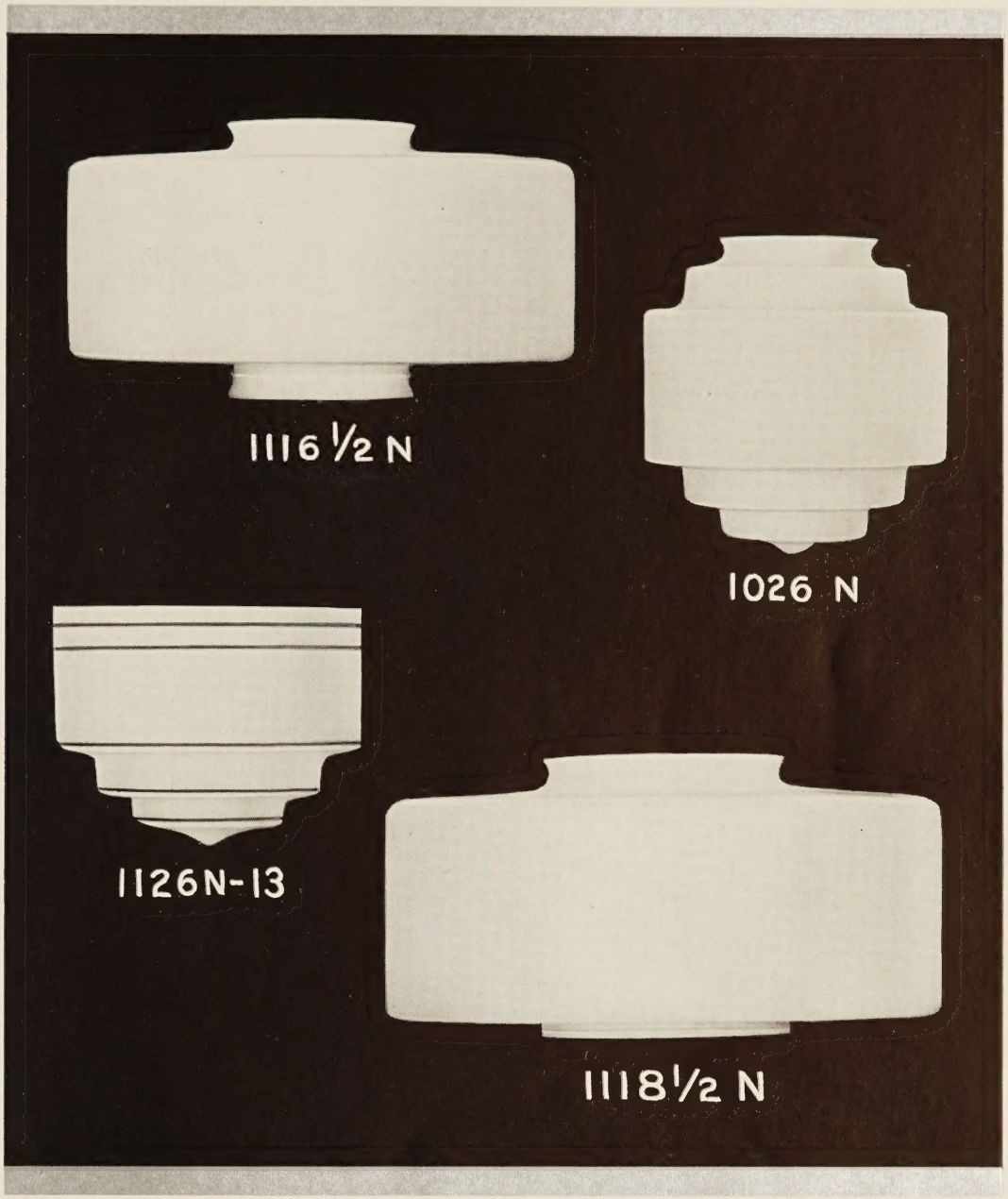
Alabaster Cased Glass, designated by letter "A". The Alabaster Cased Glass is produced by spreading a Crystal Glass over a very thin film of high grade White Glass. This Glass is only partially diffusing, permitting a high light output.

Other Glasses

Ruby Glass, designated by letter "R". This is a high quality Ruby Glass, furnished Plain—natural Ruby, or roughed inside if desired.

Crystal Glass, designated by letter "C". Our Crystal Glass is a Semi-Lead Glass, much superior to the ordinary run of Crystal Glass on the market to-day, and is noted for its brilliancy and durability.

Modern Designs Indirect Bowls and Lighting Units
Nicco Opal Glass



The Bowls and Units illustrated above are made in the following Sizes and Decorations:

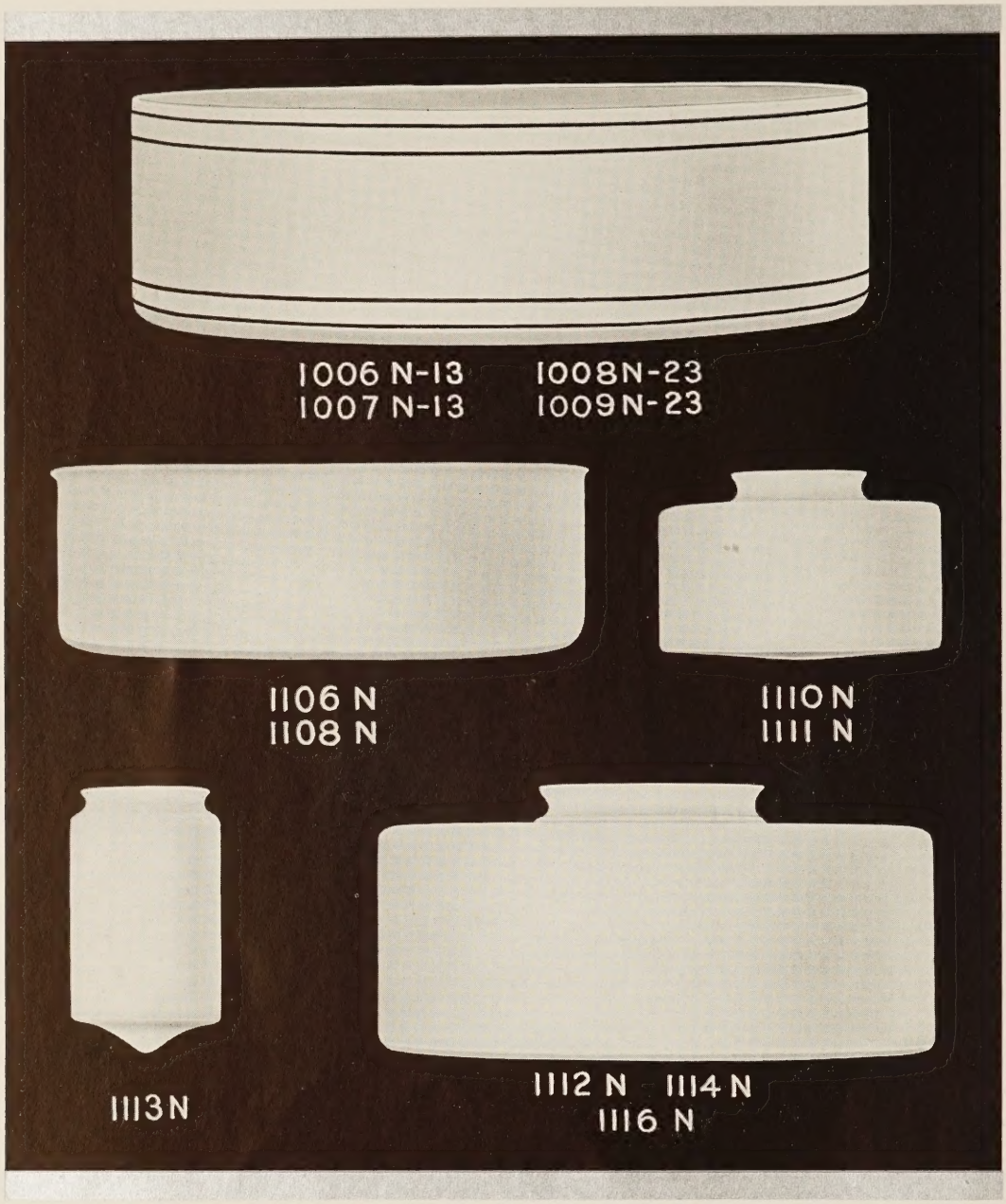
Decoration Numbers and Descriptions:

N Nicco Opal
N-13 Nicco, Black Lines
N-23 Nicco, Platinum Lines

Number	Diameter Inches	Fitter Inches	Depth Inches	Lamp Recommendation Watts	Quantity to Standard Package	Approximate Shipping Weight
1026	7¼	4	7¾	60–100	8	15 lbs.
1116½	16	Top 6 Bottom 6	8¾	200–300	2	15 lbs.
1118½	18	8	8½	300–500	2	23 lbs.
Bottom Opening—8″						
1126	7¼	7¼	6	60–100	12	19 lbs.

ORDER BY NUMBER AND DECORATION NUMBER

Modern Designs Indirect Bowls and Lighting Units
Nicco Opal Glass



The Bowls and Units illustrated above are made in the following Sizes and Decorations:

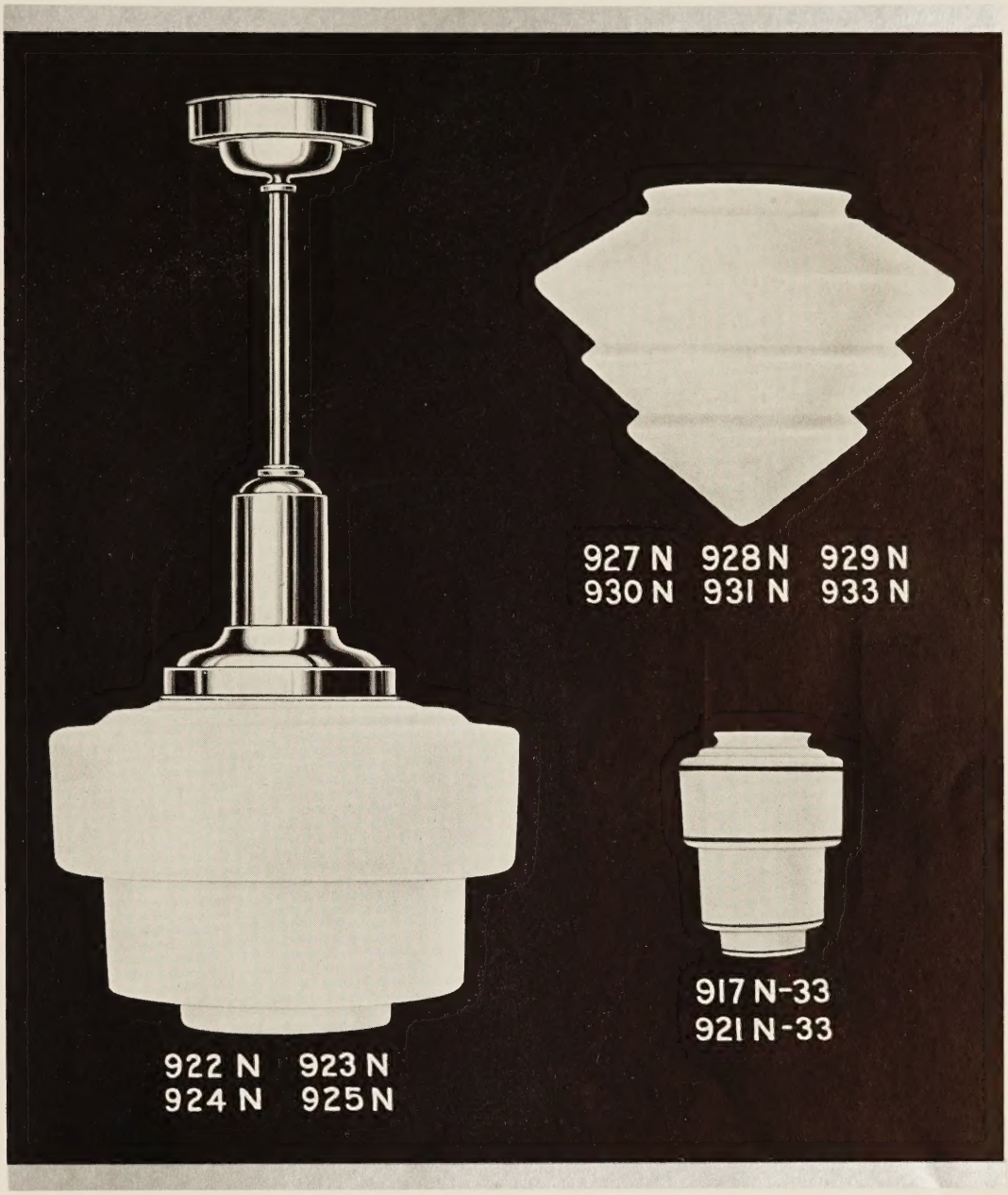
Decoration Numbers and Descriptions:
N Nicco, Opal
N-13 Nicco, Black Lines
N-23 Nicco, Platinum Lines

Number	Diameter Inches	Fitter Inches	Depth Inches	Lamp Recommendation Watts	Quantity to Standard Package	Approximate Shipping Weight
1006	16	16	4¾		3	15 lbs.
1007	10	10	3¾		6	16 lbs.
1008	12	12	4		3	14 lbs.
1009	14	14	4½		3	15 lbs.
***1010**	8	8	3½		8	15 lbs.
1106	16½	16½	5¼		4	18 lbs.
1108	12½	12½	4½		3	15 lbs.
***1109**	14½	14½	5¼		3	18 lbs.
1110	10	4	5¼	100–150	6	16 lbs.
1111	8	4	5¼	60–100	8	15 lbs.
1112	12	6	5½	150–200	3	14 lbs.
1113	3¾	3¼	6¼	40–60	12	15 lbs.
1114	14	6	6⅜	150–200	3	15 lbs.
1116	16	6	7½	200–300	4	17 lbs.
***1118**	18	8	9¼	300–500	2	23 lbs.

*NOTE:—No. 1010 is same design as No. 1006. No. 1109 is same design as No. 1106. No. 1118 is same design as No. 1112. Above Units are carried in stock without hole in bottom. If desired with hole there will be an extra charge for drilling

ORDER BY NUMBER AND DECORATION NUMBER

The 917 Line—The 927 Line Modernistic Units
Nicco Opal Glass



Decoration Numbers and Descriptions:

917-921-922-923-924-925
N Nicco Opal
N-1 Nicco, Green Lines
N-33 Nicco, Platinum Lines

927-928-929-930-931-933
N Nicco Opal
N-7 Nicco, Black Lines
N-23 Nicco, Platinum Lines

Number	Diameter Inches	Fitter Inches	Depth Inches	Lamp Recommendation Watts	Quantity to Standard Package	Approximate Shipping Weight
917	7	4	10	100–150	12	30 lbs.
921	5½	3¼	7½	60	12	25 lbs.
922	10	4	7½	150	6	24 lbs.
923	12	6	9	200	2	13 lbs.
924	14	6	10½	200–300	2	16 lbs.
925	16	6	12	300–500	1 & 2	13 & 23 lbs.
927	6	3¼	5	25	12	14 lbs.
928	10	4	8½	60–100	6	24 lbs.
929	12	6	10	100–150	2	14 lbs.
930	14	6	11½	200–300	2	15 lbs.
931	16	6	13¼	300–500	1 & 2	12 & 23 lbs.
933	8	4	6¼	40–60	12	20 lbs.

Above Units are not furnished with hole in bottom.
The Fixture shown above is for illustration only.

ORDER BY NUMBER AND DECORATION NUMBER

Nicco Opal and Daylight Cased Glass—Black and Platinum Lines

The Balls, Cylinders and Units illustrated above are made in the following Sizes and Decorations:

Decoration Numbers and Descriptions:

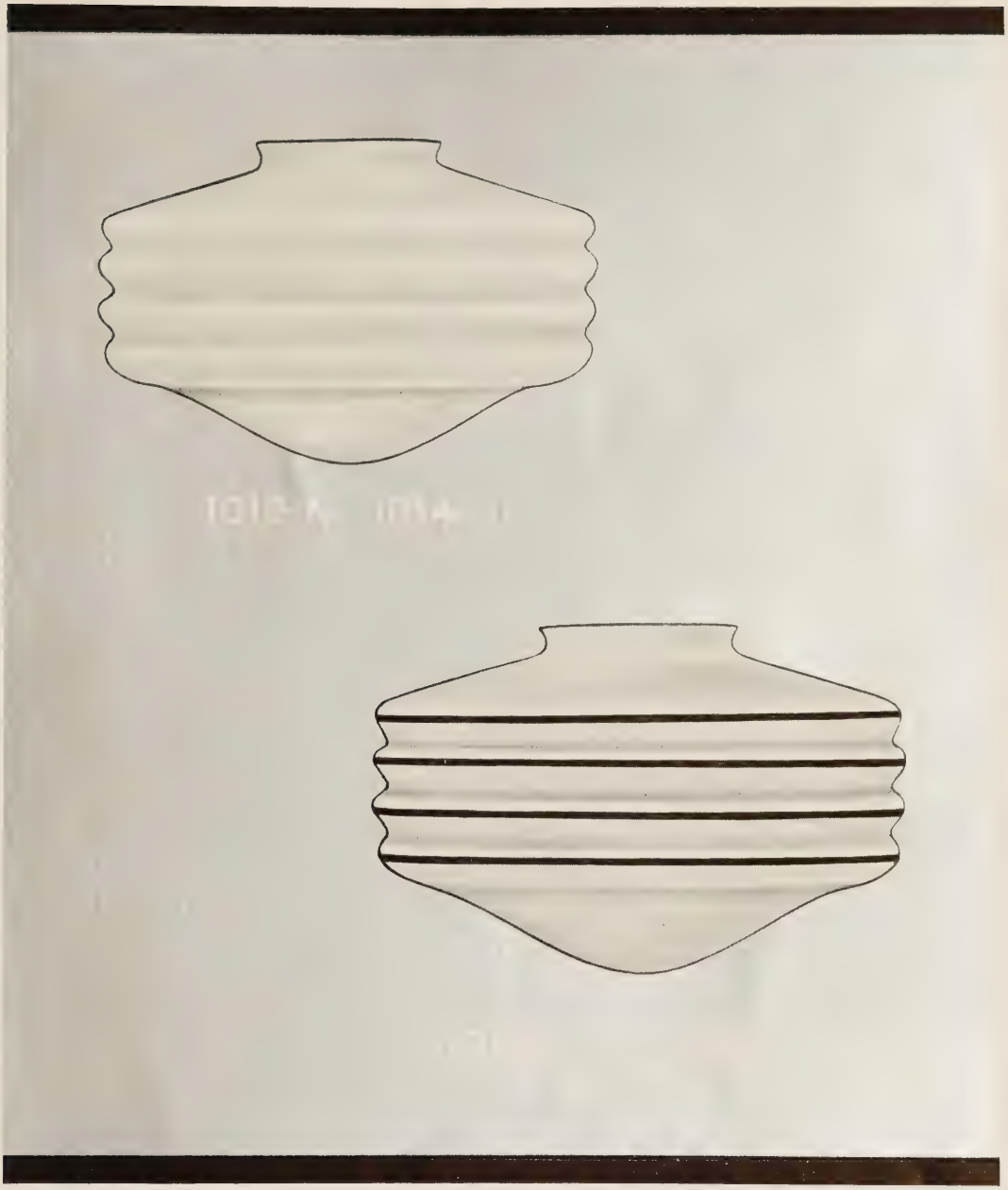
N	Nicco Opal	**L**	Daylight Cased
N-13	Nicco, Black Lines	**L-13**	Daylight, Black Lines
N-23	Nicco, Platinum Lines	**L-23**	Daylight, Platinum Lines

Number	Diameter Inches	Fitter Inches	Depth Inches	Quantity to Standard Package	Approximate Shipping Weight
5-inch Ball	5	3¼	5	12	13 lbs.
6-inch Ball	6	3¼ & 4	6	12	15 lbs.
8-inch Ball	8	3¼ & 4	8	8	21 lbs.
10-inch Ball	10	4 & 6	10	4	17 lbs.
12-inch Ball	12	4, 6 & 8	12	2	12 lbs.
14-inch Ball	14	6 & 8	14	1	10 lbs.
16-inch Ball	16	6 & 8	16	1	12 lbs.
688	3¾	3¼	5¼	12	9 lbs.
992	11	6	16⅜	1	10 lbs.
***994**	11	6	14½	1	10 lbs.
Cylinder	3		6	72	95 lbs.
Cylinder	3		8	42	83 lbs.
Cylinder	4		5	48	65 lbs.
Cylinder	4		6	48	65 lbs.
Cylinder	4		8	42	90 lbs.

* NOTE:—No. 994 is same design as No. 992 except has flat bottom.
Cylinders can be furnished in sizes other than listed. Prices quoted on application.
When ordering Balls specify size Fitter wanted. When ordering Cylinders designate both diameter and height.

ORDER UNITS BY NUMBER AND DECORATION NUMBER

The 1012 Line—Modernistic Design Lighting Units
Nicco Opal and Delica White Cased Glass



The 1012 Line is made in the following Sizes and Decorations:

Decoration Numbers and Descriptions:

N	Nicco Opal	**D**	Delica White Cased
N-13	Nicco, Black Lines	**D-13**	Delica White, Black Lines
N-23	Nicco, Platinum Lines	**D-23**	Delica White, Platinum Lines

Number	Diameter Inches	Fitter Inches	Depth Inches	Lamp Recommendation Watts	Quantity to Standard Package	Approximate Shipping Weight
1012	12	6	8⅛	150–200	2	14 lbs.
1014	14	6	9¼	200	1 & 2	9 & 14 lbs.
1016	16	6	10¼	300	1 & 2	10 & 16 lbs.
1018	18	8	11⅞	300–500	1	16 lbs.

Above Units are carried in stock without hole in bottom. If desired with hole there will be an extra charge for drilling.

ORDER BY NUMBER AND DECORATION NUMBER

Photometric Data 1012 Line

ELECTRICAL TESTING LABORATORIES
NEW YORK, N. Y.

REPORT NO. 139051 ORDER NO. 62740-S PLATE NO 29007

CANDLEPOWER DISTRIBUTION
NO. 1016 UNIT* DELICA

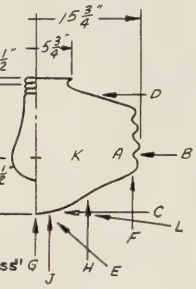
Rendered to Kopp Glass, Inc.

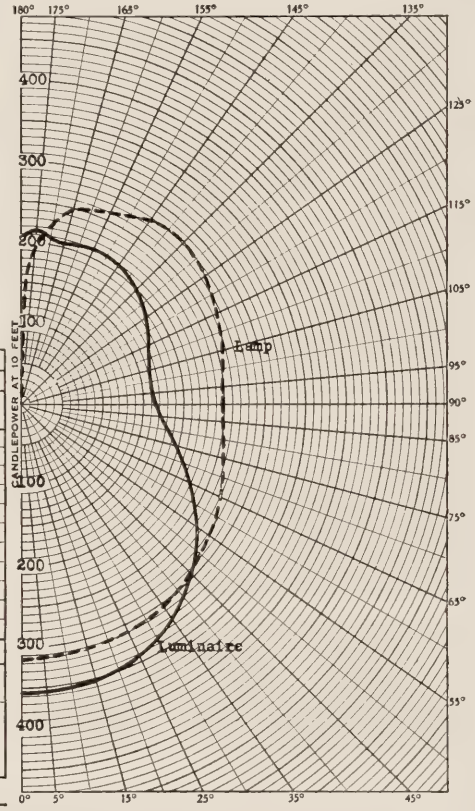
One unit submitted by client. Lamp positioned in accordance with client's instructions.

Lamp - 200 Watts; 115 Volts; 3400 Lumens; PS30 Inside Frosted Gas-Filled Bulb; C-9 Filament; Medium Base; General Service.

Surface covering globe opening, reflection factor 0.40.

"Delica white cased glass"
Weight - 5 lbs 12 ozs





LUMINAIRE DISTRIBUTION DATA

MEAN VERTICAL

MID-ZONE ANGLES	CANDLEPOWER AT 10 FEET	ZONAL LUMENS	MID-ZONE ANGLES	CANDLEPOWER AT 10 FEET	ZONAL LUMENS
180° HOR.	204		90° HOR.	164	
175°	217	20	85°	172	188
165°	206	59	75°	195	209
155°	211	98	65°	228	226
145°	209	131	55°	264	237
135°	200	155	45°	298	231
125°	188	168	35°	325	204
115°	172	171	25°	344	159
105°	162	172	15°	352	100
95°	160	175	5°	354	34
			0° NADIR	357	

LIGHT FLUX VALUES

ZONE	LUMENS		PER CENT TOTAL LUMENS BARE LAMP	PER CENT LIGHT OUTPUT
	LAMP	LUMINAIRE		
0°-60°	934	965	28.5	
0°-90°	1742	1588	46.5	80.5
90°-180°	1656	1149	34	
0°-180°	3398	2737	80.5	

LUMINAIRE BRIGHTNESS

CANDLEPOWER PER SQUARE INCH
THE ARROWS INDICATE THE LOCATION AND ANGLE OF VIEW

LOCATIONS	A	B	C	D	E	F	G	H	I	J	K	L	M
CP. PER SQ IN	1.3	1.4	3.3	1.2	3.8	1.0	3.7	2.4		3.7	1.3	3.5	

TESTED BY Carl. PLOTTED BY Lamp COMPUTED BY Lamp CHECKED BY Rw ISSUED Sept. 4, 1936.

*E.T.L. Identification No. 6420

APPROVED BY

William T. Little
ENGINEER IN CHARGE OF PHOTOMETRY

C. E. Horn
IN CHARGE OF TEST

Above is shown reproduction of Candlepower Distribution Test of Unit No. **1016-D**, Delica White Cased Glass. A full size blueprint will be furnished on request.

The 901 Line—The 1030 Line. Delica White Cased, Daylight Cased Glass and Nicco Opal Glass

Decoration Numbers and Descriptions:

901-902-903-904-905-906-907-959
D Delica White Cased
N Nicco Opal

1030-1032-1034-1036-1039
L Daylight Cased
N Nicco Opal

Number	Diameter Inches	Fitter Inches	Depth Inches	Lamp Recommendation Watts	Quantity to Standard Package	Approximate Shipping Weight
901	6½	3¼	5½	50–75	12	18 lbs.
902	8½	4	7¼	75–100	8	28 lbs.
903	10½	4	8	100–150	4	22 lbs.
904	12½	6	10	150–200	2	16 lbs.
905	14½	6	10¾	200	2	18 lbs.
906	16	6	12½	300	1 & 2	13 & 18 lbs.
907	18	6	14¾	300–500	1	20 lbs.
959	18	8	14¾	300–500	1	20 lbs.
1030	10	4	6⅞	100–150	6	22 lbs.
1032	12	6	7¾	150–200	2	14 lbs.
1034	14	6	9¼	200	2	16 lbs.
1036	16	6	10¾	500	1 & 2	14 & 19 lbs.
1039	18	8	12	300–500	1	17 lbs.

Above Units are carried in stock without hole in bottom. If desired with hole there will be an extra charge for drilling.
The Fixture shown above is for illustration only.

ORDER BY NUMBER AND DECORATION NUMBER

Nicco Opal, Delica White Cased and Crystal Glass

Nos. 154 C-3 and 1084 have been designed with Shoulder to accommodate Glass Louvre

The Units illustrated above are made in the following Sizes and Decorations:

Decoration Numbers and Descriptions:

860-863-867-869-870-895
N Nicco Opal
D Delica White Cased

862-875
N Nicco Opal
D Delica White Cased

1084
N Nicco Opal

154 C-3 Crystal Glass, lower section enameled, top section Opalescent tint

Number	Diameter Inches	Fitter Inches	Depth Inches	Lamp Recommendation Watts	Quantity to Standard Package	Approximate Shipping Weight
154 C-3	14	6	9	200	2	14 lbs.
860	14	6	9½	200	2	16 lbs.
863	10	4	7½	100–150	6	23 lbs.
867	8	4	6½	75–100	8	25 lbs.
869	12½	6	8½	150–200	2	12 lbs.
870	15½	6	10	300	2	14 lbs.
895	10	6	7½	100–150	6	23 lbs.
862	12	6	12	150–200	2	16 lbs.
875	14	6	13½	200	1	9 lbs.
1084	13½	6	8½	200	2	13 lbs.

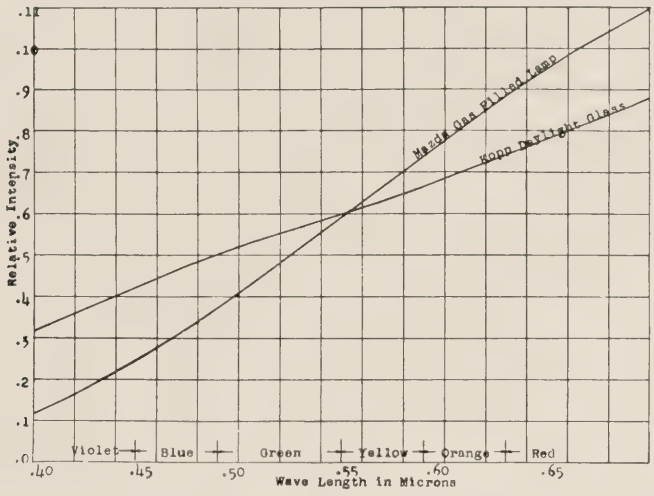
Above Units are carried in stock without hole in bottom. If desired with hole there will be an extra charge for drilling.

ORDER BY NUMBER AND DECORATION NUMBER

KOPP'S DAYLIGHT CASED GLASS

Provides a Soft White Light Nearest Actual Daylight

No Eye Strain nor Fatigue after Kopp's Daylight Cased Glass has been installed



Distribution Curves Daylight Glass

Curves showing relative spectral distribution of light from a gas filled Mazda Lamp, and from same in conjunction with Kopp's Daylight Glass. The curves represent distributions for equal illuminations.

KOPP'S DAYLIGHT CASED GLASS, so called because it transforms the light from an ordinary Electric Lamp Bulb into a soft white light that more nearly approaches daylight. Spectra photometric analysis show that the light transmitted by this Glass is as near to actual daylight as can be obtained by the use of any lighting Glass. This is accomplished with the highest efficiency compatible with the results obtained.

It is a well known fact that the maximum of the luminosity curve of the eye is in the same region of the spectrum as the maximum of the radiant energy of the sunlight. This fact substantiates the vast amount of evidence of a physiological nature, that the eye is adapted to see better and with less strain and discomfort by daylight than by an artificial illuminant of a different spectral distribution.

We have illustrated on Page 10 of this Catalog the difference in light transmitted from a Lighting Unit of ordinary White Glass and a Unit in the Daylight Cased Glass. We believe this illustration will convince you of the merits of the Daylight Cased Glass.

Kopp's Daylight Cased Glass gives more light and better light, with no glare. It is the result of considerable study, experiments and tests to produce a daylight effect with artificial light.

Daylight Cased Glass is the perfect Lighting Glass for Schools, Colleges, Hospitals and Offices, as it eliminates the eye strain and fatigue experienced because of inadequate lighting. It has proven most satisfactory for Department Store lighting as it shows the merchandise to proper advantage—the fabrics in their true colors, jewelry, china and glassware, and any other merchandise in their real values. It is also desirable for Drafting Rooms and Shops—Perfect Lighting costs very little more than poor lighting and it pays good dividends in increased production and better workmanship. Our Daylight Cased Glass may now be obtained in Lighting Units in various designs, and in a wide range of sizes to meet the requirements of any lighting specification. You will find these Units illustrated on Pages 4, 7, 10, 11 and 13 of this Catalog.

Equip your own establishment with Daylight Cased Glass and you will readily be convinced of the superiority of this Glass.

The 981 Line—Daylight Cased Glass

WHITE GLASS

DAYLIGHT GLASS

Above illustration shows the difference in light transmitted from a Daylight Cased Glass Unit and an ordinary White Glass Unit. Lamps of same Candlepower and Wattage used in both Units.

The 981 Line is made in the following Sizes:

Number	Diameter Inches	Fitter Inches	Depth Inches	Lamp Recommendation Watts	Quantity to Standard Package	Approximate Shipping Weight
981	8½	4	5½	75–100	12	22 lbs.
982	12	4	7¾	150–200	2	12 lbs.
983	12	6	7¾	150–200	2	12 lbs.
984	14	6	9¼	200	2	13 lbs.
985	16	6	10½	300	1	15 lbs.
986	18	8	11¾	300–500	1	17 lbs.
987	10	4	6¼	100–150	6	22 lbs.
988	10	6	6¼	100–150	6	22 lbs.

For complete information pertaining to the No. 981 Line, See Page 11.

Other Lighting Units in Daylight Cased Glass are illustrated on Pages 4, 7 and 13.

The 981 Line—Semi-Indirect Units
Nicco Opal, Delica White Cased and Daylight Cased Glass. Alabaster Glass, White Enameled Bottom

The 981 Line is made in the following Sizes and Decorations:

Decoration Numbers and Descriptions:

D	Delica White Cased	**L**	Daylight Cased
N	Nicco Opal	**A-1**	Alabaster, White Enameled Bottom

Number	Diameter Inches	Fitter Inches	Depth Inches	Lamp Recommendation Watts	Quantity to Standard Package	Approximate Shipping Weight
981	8½	4	5½	75–100	12	22 lbs.
982	12	4	7¾	150–200	2	12 lbs.
983	12	6	7¾	150–200	2	12 lbs.
984	14	6	9¼	200	2	13 lbs.
985	16	6	10½	300	1	15 lbs.
986	18	8	11¾	300–500	1	17 lbs.
987	10	4	6¼	100–150	6	22 lbs.
988	10	6	6¼	100–150	6	22 lbs.

The Fixtures illustrated above are—Chain Type, No. 2970—4″ Fitter, No. 2971—6″ Fitter. Ceiling Type, No. 2975—6″ Fitter, No. 2985—4″ Fitter. See Price List for further information pertaining to Fixtures. Above Units are carried in stock without hole in bottom. If desired with hole there will be an extra charge for drilling.

ORDER BY NUMBER AND DECORATION NUMBER

Photometric Data 981 Line

ELECTRICAL TESTING LABORATORIES
NEW YORK, N. Y.

REPORT NO 131843 ORDER NO. 52910-S PLATE NO. 26414

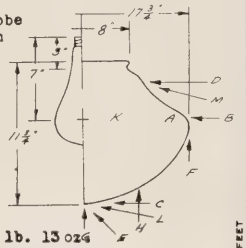
CANDLEPOWER DISTRIBUTION

"NICCO OPAL HEAT RESISTING GLASS GLOBE NO.986"* Nicco

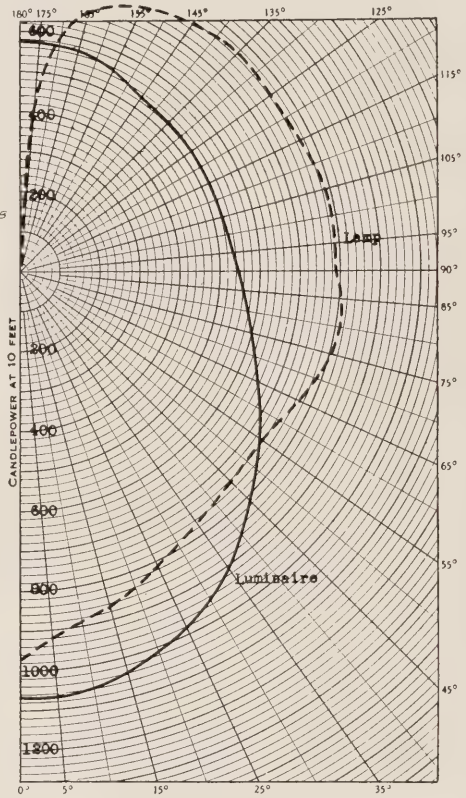
Rendered to Kopp Glass, Incorporated

Lamp - 500 Watts; 115 Volts; 9700 Lumens; PS40 Clear Gas-Filled Bulb; C-7A Filament; Mogul Base; General Service.

Surface covering globe opening; reflection factor 0.40.



Weight of Glass - 5 lb. 13 ozs



CANDLEPOWER PER SQUARE INCH
THE ARROWS INDICATE THE LOCATION AND ANGLE OF VIEW

LUMINAIRE DISTRIBUTION DATA

Mean Vertical

MID-ZONE ANGLES	CANDLEPOWER AT 10 FEET	ZONAL LUMENS	MID-ZONE ANGLES	CANDLEPOWER AT 10 FEET	ZONAL LUMENS
180° ZEN.	575		90° HOR.	545	
175°	575	55	85°	560	611
165°	570	161	75°	600	635
155°	555	257	65°	660	655
145°	530	333	55°	730	655
135°	530	411	45°	805	629
125°	525	471	35°	910	572
115°	520	516	25°	980	454
105°	525	556	15°	1040	294
95°	535	584	5°	1070	102
			0° NADIR	1070	

LIGHT FLUX VALUES

ZONE	LUMENS		PER CENT TOTAL LUMENS BARE LAMP	PER CENT LIGHT OUTPUT
	LAMP	LUMINAIRE		
0°-60°	2432	2706	28	
0°-90°	4928	4607	47.5	82
90°-180°	4772	3344	34.5	
0°-180°	9700	7951	82	

LUMINAIRE BRIGHTNESS

LOCATIONS	A	B	C	D	E	F	G	H	I	J	K	L	M
CP. PER SQ. IN.	3.5	3.9	4.7	4.8	5.9	2.8	6.2	4.7			3.8	5.4	4.7

*E.T.L. Identification No.4693.

TESTED BY AEC PLOTTED BY MW COMPUTED BY MW CHECKED BY [illegible] ISSUED Feb. 17th, 1933.

APPROVED BY William F. Hoak
ENGINEER IN CHARGE OF PHOTOMETRY

C. T. Horn
IN CHARGE OF TEST

Above is shown reproduction of Candlepower Distribution Test of Unit No. **986-N,** Nicco Opal Glass. Tests have been made of other sizes in this line Full size blueprints will be furnished on request.

The 852 Line—The 1000 Line. Daylight Cased, Delica White Cased, Opalescent and Nicco Opal Glass

The Units illustrated above are made in the following Sizes and Decorations:

Decoration Numbers and Descriptions:

852 Line
N Nicco Opal
D Delica White Cased
L Daylight Cased

1000 Line—Two-Piece Units joined with Spun Brass Nickel Plated Ring
N Nicco Bottom, Opalescent Top
L-1 Daylight Bottom, Opalescent Top

Number	Diameter Inches	Fitter Inches	Depth Inches	Lamp Recommendation Watts	Quantity to Standard Package	Approximate Shipping Weight
852	10	4	7	100–150	6	22 lbs.
853	12	6	9	150–200	2	12 lbs.
854	14	6	9½	200	2	14 lbs.
855	16	6	11½	300	1 & 2	10 & 16 lbs.
856	18	6	13½	300–500	1	17 lbs.
857	18	8	13½	300–500	1	17 lbs.
861	12	4	9	150–200	2	15 lbs.
865	8	4	6	75–100	12	22 lbs.
1000	12	4	8¼	200	1	7 lbs.
1001	14	6	10	300	1	8 lbs.
1002	16	6	11¼	300–500	1	12 lbs.

Above Units are carried in stock without hole in bottom. If desired with hole there will be an extra charge for drilling. The Fixture shown above is for illustration only.

ORDER BY NUMBER AND DECORATION NUMBER

The 911 Line—Nicco Opal Glass

The 911 Line is made in the following Sizes and Decorations:

Decoration Numbers and Descriptions:

N Nicco Opal
N-4 Nicco "New Empire" Design in Ecru

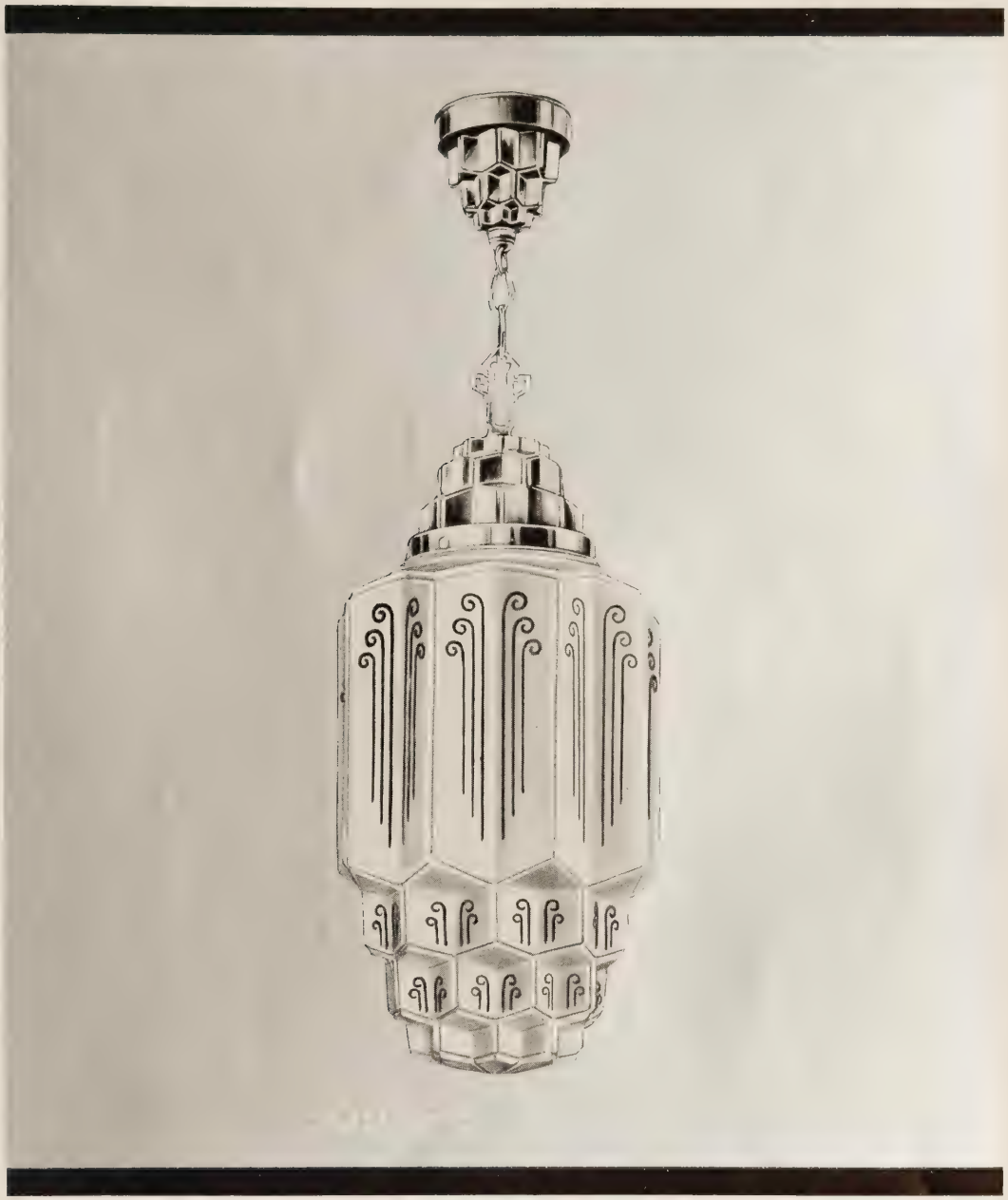
Number	Diameter Inches	Fitter Inches	Depth Inches	Lamp Recommendation Watts	Quantity to Standard Package	Approximate Shipping Weight
911	10	4	7	100–150	6	23 lbs.
912	12	6	7½	150–200	2	14 lbs.
913	14	6	9⅞	200	1 & 2	9 & 14 lbs.
914	16	6	10¼	300	1 & 2	10 & 16 lbs.
915	12	4	7½	150–200	2	14 lbs.
916	18	8	11	300–500	1	16 lbs.
918	18	6	11	300–500	1	16 lbs.

The Fixtures illustrated above are—Chain Type, No. 2970—4″ Fitter, No. 2971—6″ Fitter. Ceiling Type, No. 2975—6″ Fitter. No. 2985—4″ Fitter. See Price List for further information pertaining to Fixtures.

Above Units are carried in stock without hole in bottom. If desired with hole there will be an extra charge for drilling.

ORDER BY NUMBER AND DECORATION NUMBER

The 935 Line
Modernistic Units, Prismatic Design—Nicco Opal Glass



Decoration N-15 Nicco, Shield Decoration in Black

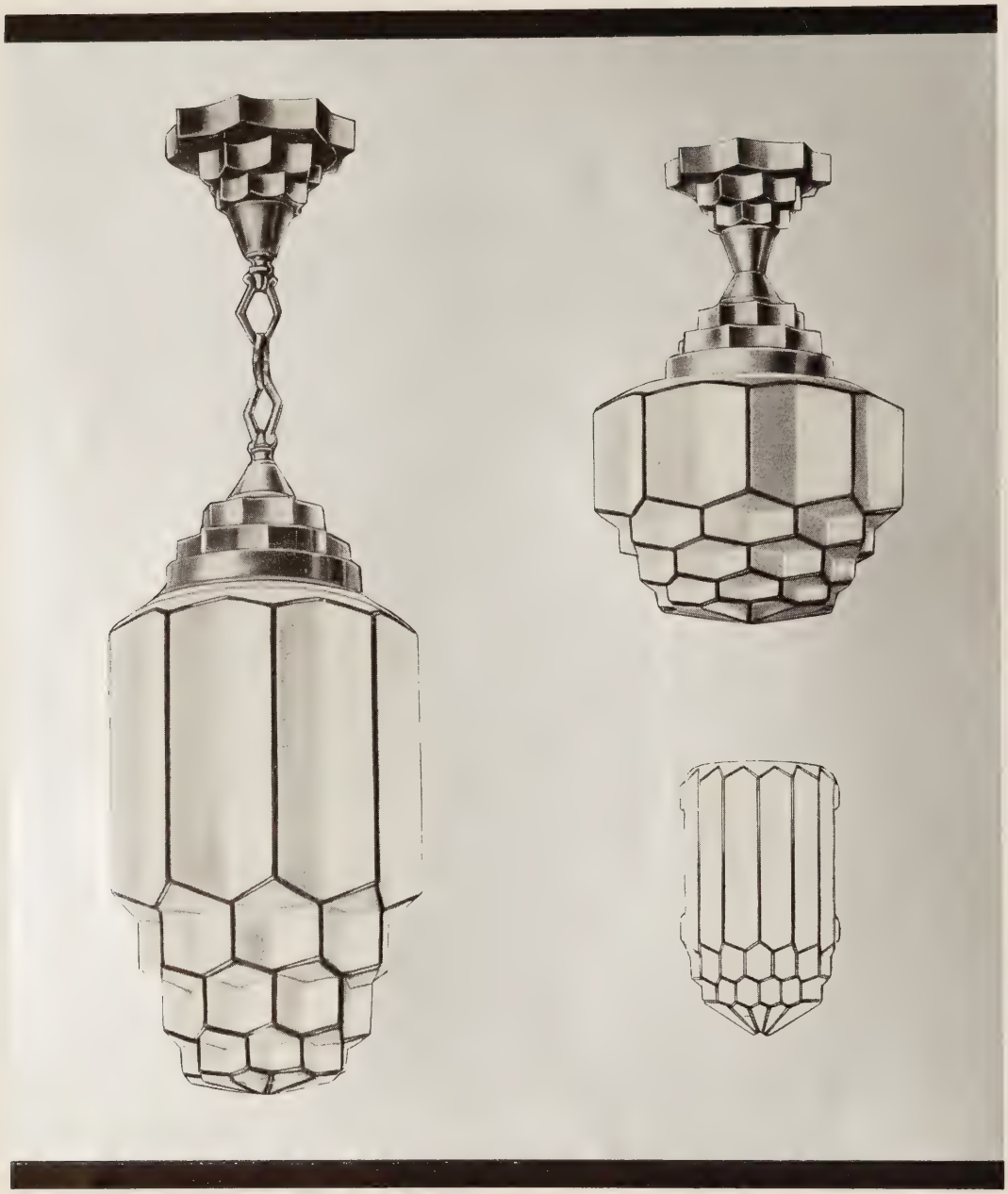
The N-15 Decoration is furnished on all numbers in the 935 Line listed below.

Number	Diameter Inches	Fitter Inches	Depth Inches	Lamp Recommendation Watts	Quantity to Standard Package	Approximate Shipping Weight
56 N-15	9¼ x 5⅜	.....	3¼	25	12	29 lbs.
935 N-15	4¼	3¼	6	40–60	12	15 lbs.
936 N-15	6	4	9	60–100	12	32 lbs.
937 N-15	8½	4	6¾	60–100	8	24 lbs.
938 N-15	12	6	9½	200–300	2	15 lbs.
939 N-15	10	6	16	200–300	1	10 lbs.
940 N-15	12½	6	20	300–500	1	15 lbs.
941 N-15	8	4	12	100–150	4	16 lbs.

Above Units are not furnished with hole in bottom.
Fixture shown above for illustration only.

ORDER BY NUMBER AND DECORATION NUMBER

The 935 Line
Modernistic Units, Prismatic Design—Nicco Opal Glass



Decoration Numbers and Descriptions:

N Nicco Opal **N-3** Nicco, Black Lines **N-23** Nicco, Platinum Lines

The Units illustrated above are made in the following sizes:

Number	Diameter Inches	Fitter Inches	Depth Inches	Lamp Recommendation Watts	Quantity to Standard Package	Approximate Shipping Weight
56	9¼ x 5⅜	.....	3¼	25	12	29 lbs.
***935**	4¼	3¼	6	40–60	12	15 lbs.
***936**	6	4	9	60–100	12	32 lbs.
937	8½	4	6¾	60–100	8	24 lbs.
938	12	6	9½	200–300	2	15 lbs.
939	10	6	16	200–300	1	10 lbs.
940	12½	6	20	300–500	1	15 lbs.
***941**	8	4	12	100–150	4	16 lbs.
942	18	8	22	500	1	35 lbs.

*Nos. 935, 936 and 941 are same design as No. 939.

Above Units are not furnished with hole in bottom.
Fixtures shown above for illustration only.

ORDER BY NUMBER AND DECORATION NUMBER

Wall Lights and Shades—Crystal, Colored and Nicco Opal Glass

Decoration Numbers and Descriptions:

55
B Crystal, Satin Finish inside and outside

56
N Nicco Opal
N-3 Nicco, Black Lines
N-23 Nicco, Platinum Lines

943
N Nicco Opal
N-3 Nicco, Black Lines
N-23 Nicco, Platinum Lines

56-937-938
C-2 Crystal Etched, Clear Stripe

Number	Diameter Inches	Fitter Inches	Depth Inches	Quantity to Standard Package	Approximate Shipping Weight
937	8½	4	6¾	8	24 lbs.
938	12	6	9½	2	15 lbs.
943	5½ x 3½	2¼	3¼	12	12 lbs.
55	Wall Light—Width 4½″, Height 12¼″, Depth 2¼″			30	133 lbs.
56	Wall Light—Width 5⅜″, Height 9¼″, Depth 3¼″			12	29 lbs.

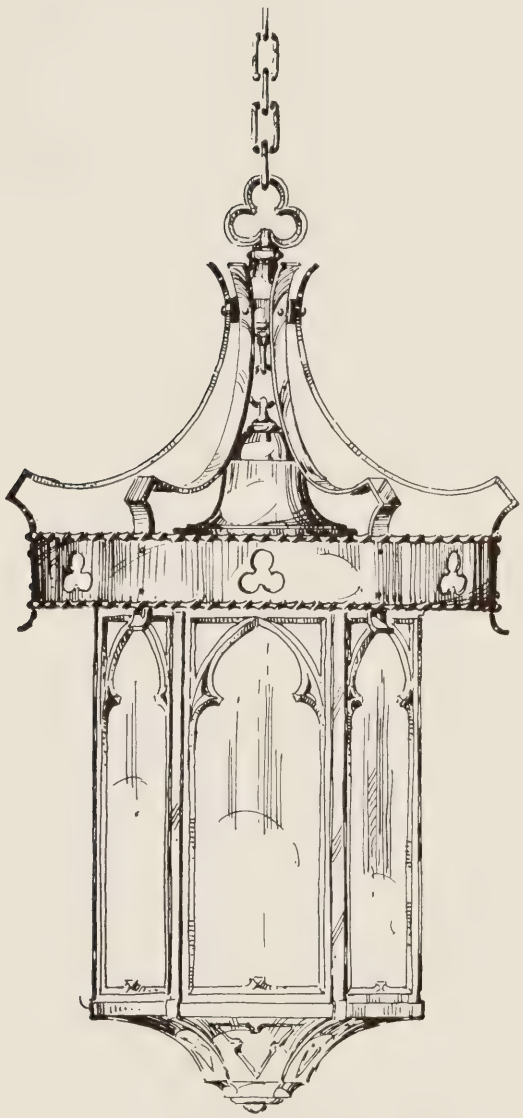
The Metal Bracket shown with No. 56 Wall Light is Bracket No. 156; dimensions 8½ x 5″.

ORDER BY NUMBER AND DECORATION NUMBER

Gothic Design Lighting Units

The Correct Design Unit for Church Lighting.

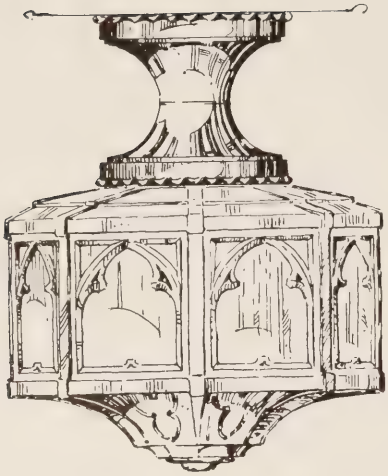
Also suitable for other Public Buildings.



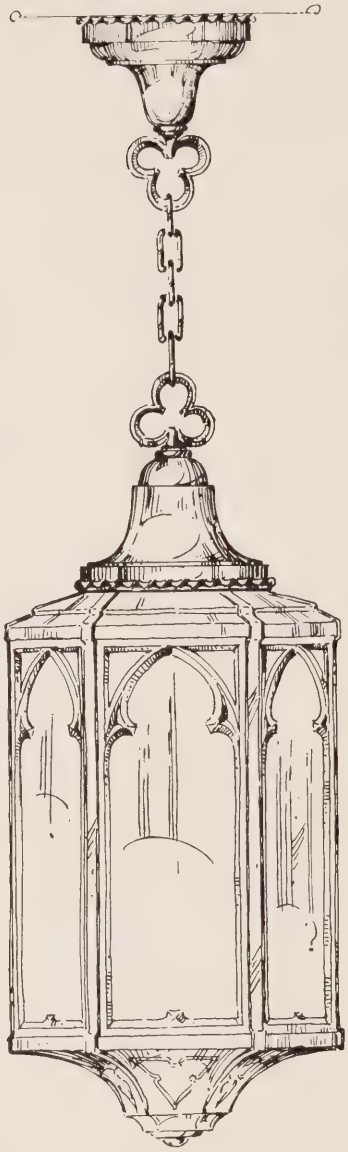
Unit No. 974

The Architectural Sketches on Pages 19 and 20 illustrate Fixtures suggested for our Gothic Design Lighting Units. Complete information pertaining to the Fixtures shown will be furnished on application.

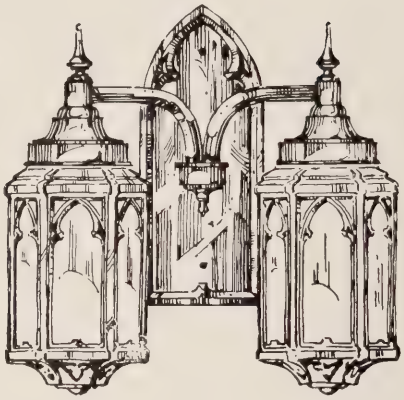
Gothic Design Lighting Units



Unit No. 977

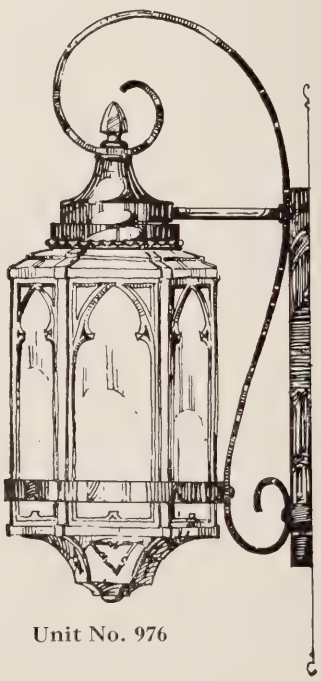


Unit No. 978



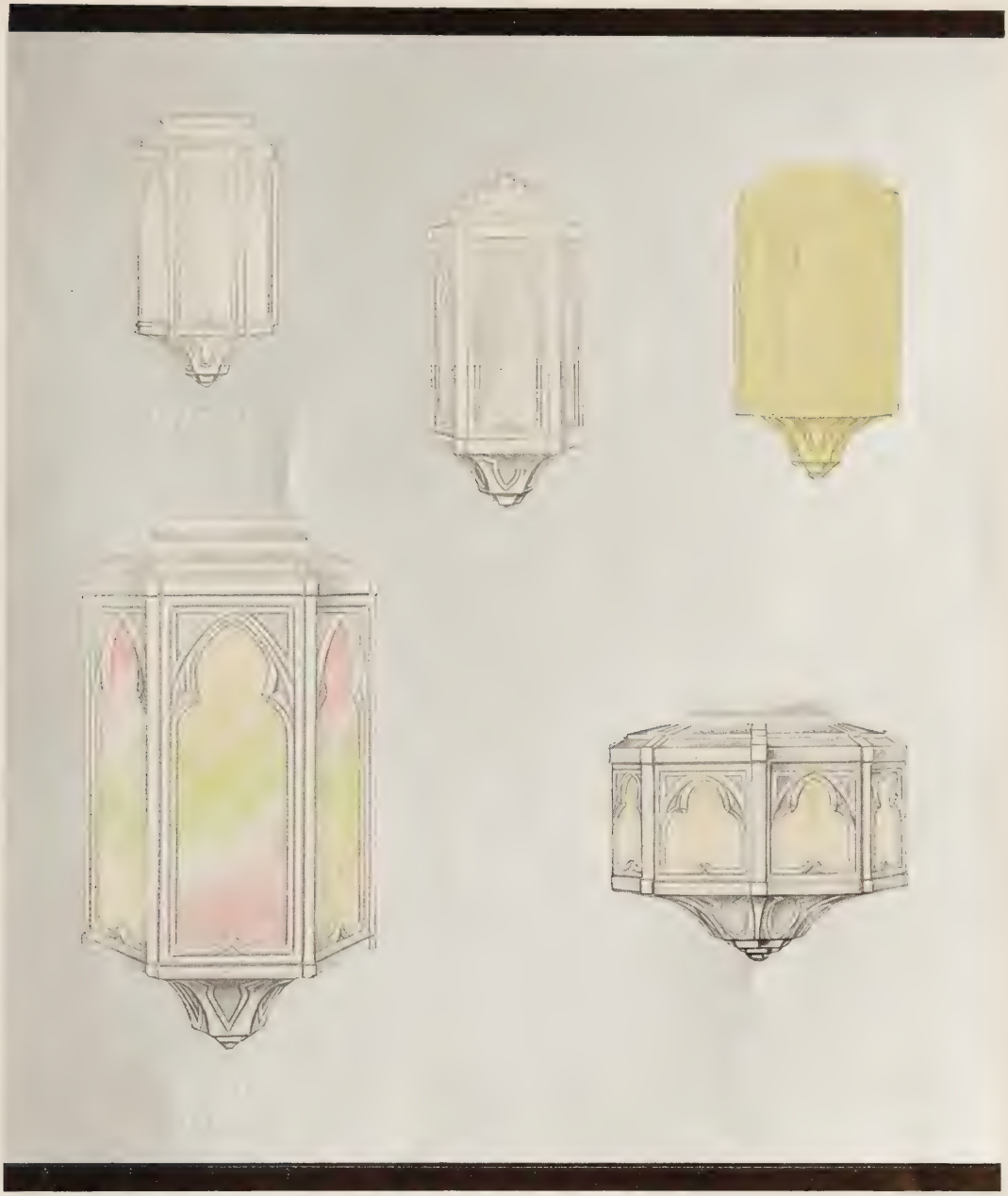
Unit No. 979

Wall Light No. 980



Unit No. 976

The 976 Line
Gothic Design Lighting Units—Nicco Opal and Ivory Glass



The 976 Line is made in the following Sizes and Decorations:

Decoration Numbers and Descriptions:

N Nicco Opal
N-4 Nicco, Panels Brown Decoration
N-5 Nicco, Cathedral Effect Decoration
I Ivory
I-4 Ivory, Panels Brown Decoration
I-5 Ivory, Cathedral Effect Decoration

Number	Diameter Inches	Fitter Inches	Depth Inches	Lamp Recommendation Watts	Quantity to Standard Package	Approximate Shipping Weight
974	14	8	24	500	1	19 lbs.
976	6½	4	12	150	6	22 lbs.
977	12	6	10	200	2	16 lbs.
978	10½	6	18½	300	1	10 lbs.
979	4⅜	3¼	8	40–60	12	25 lbs.
980 Wall Light, 11¼ x 5⅜″, 3¼″ deep.				25–40	12	36 lbs.

Above Units are not furnished with hole in bottom.
For Metal Bracket for 980, see Page 17.

ORDER BY NUMBER AND DECORATION NUMBER

Spreadlight Units—Crystal Glass Enameled, and Nicco Opal Glass—for Kitchen, Sun Parlor and Commercial Lighting

No. 134 has been designed with Shoulder to accommodate Glass Louvre

One-Piece Units—furnished in Crystal Glass White Enameled, properly fired; Clear Crystal Reflector and Lines, and Nicco Opal Glass, Plain and Decorated.

Decoration Numbers and Descriptions:

133-134
C-3 Crystal Enameled
C-30 Crystal Enameled, Black Lines
C-31 Crystal Enameled, Green Lines
C-33 Crystal Enameled, Ruby Lines

133-134
N Nicco Opal
N-30 Nicco, Black Lines
N-31 Nicco, Green Lines
N-33 Nicco, Ruby Lines

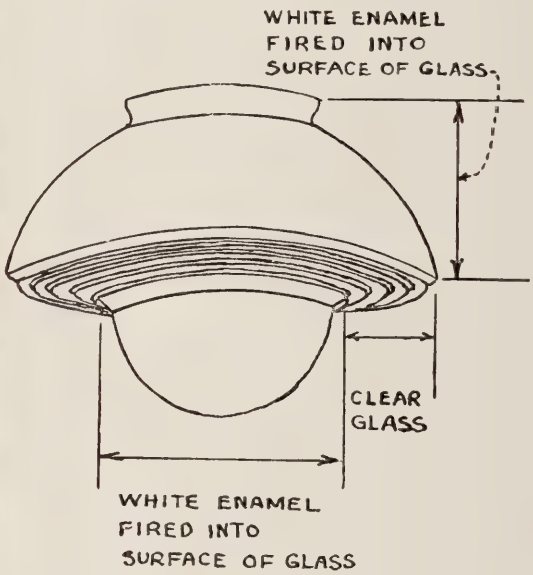
NOTE:—Other Color Lines can be furnished if desired.

Number	Diameter Inches	Fitter Inches	Depth Inches	Lamp Recommendation Watts	Quantity to Standard Package	Approximate Shipping Weight
133	8½	4	6½	75–100	12	27 lbs.
134	14	6	10	200–300	2	16 lbs.

ORDER BY NUMBER AND DECORATION NUMBER

Spreadlight Unit—Crystal Glass, Bowl Enameled Top and Bottom For Kitchen, Sun Parlor and Commercial Lighting

The SPREADLIGHT UNIT has been scientifically designed to produce efficient light output and increased light distribution



One-Piece Unit Crystal Glass, White Enamel fired into top and bottom of Bowl, leaving Clear Crystal Reflector

Decoration Numbers and Descriptions:

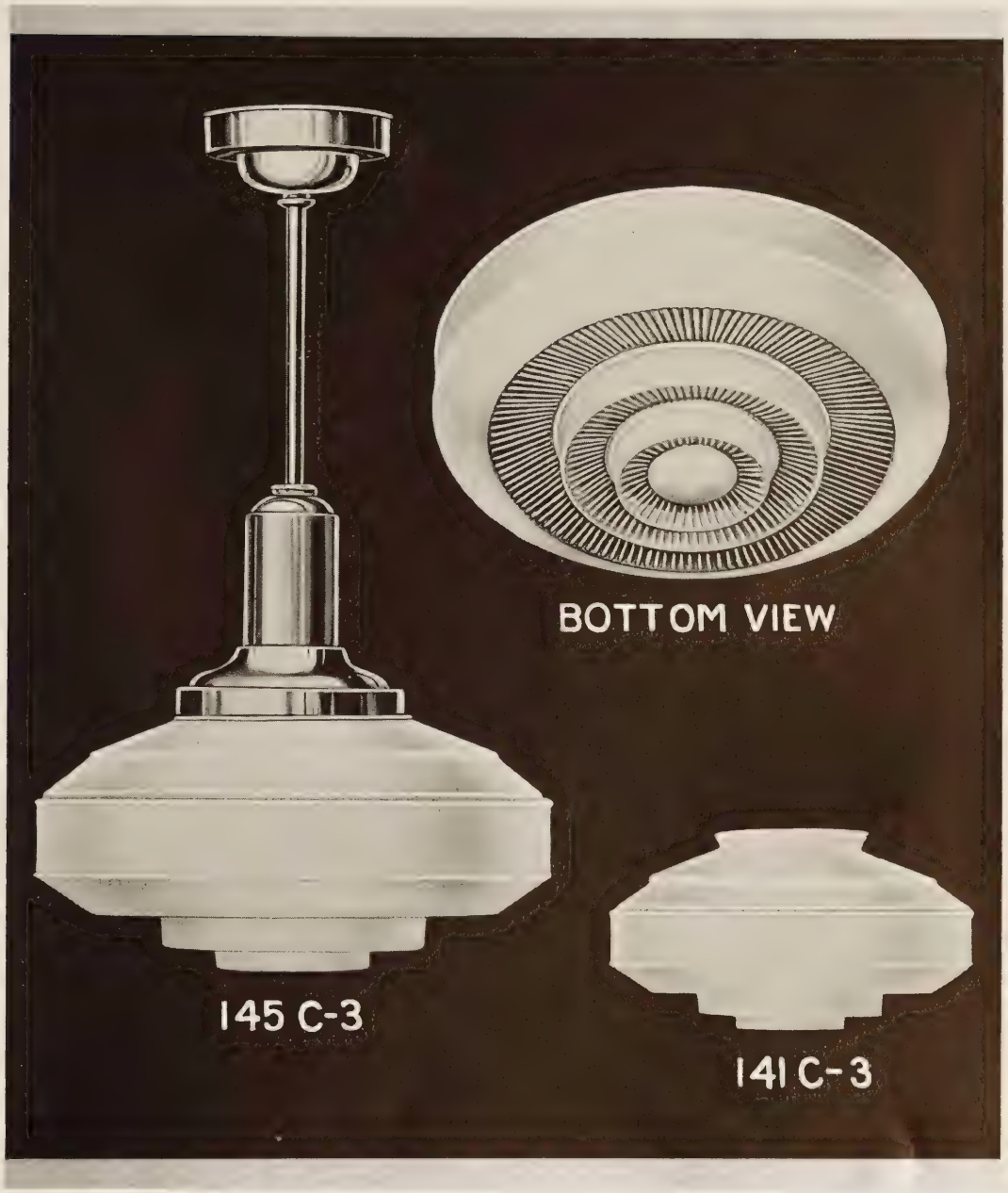
Number	Diameter Inches	Fitter Inches	Depth Inches	Lamp Recommendation Watts	Quantity to Standard Package	Approximate Shipping Weight
122 C-3	9	4	6½	75–100	12	22 lbs.
123 C-3	15	6	10½	200–300	2	16 lbs.
142 C-3	7	4	5	75–100	12	20 lbs.
143 C-3	12	6	8½	200–300	2	13 lbs.

ORDER BY NUMBER AND DECORATION NUMBER

Spreadlight Units—Crystal Glass, Enameled

For Kitchen, Sun Parlor and Commercial Lighting

Designed with Shoulder to accommodate Glass Louvre



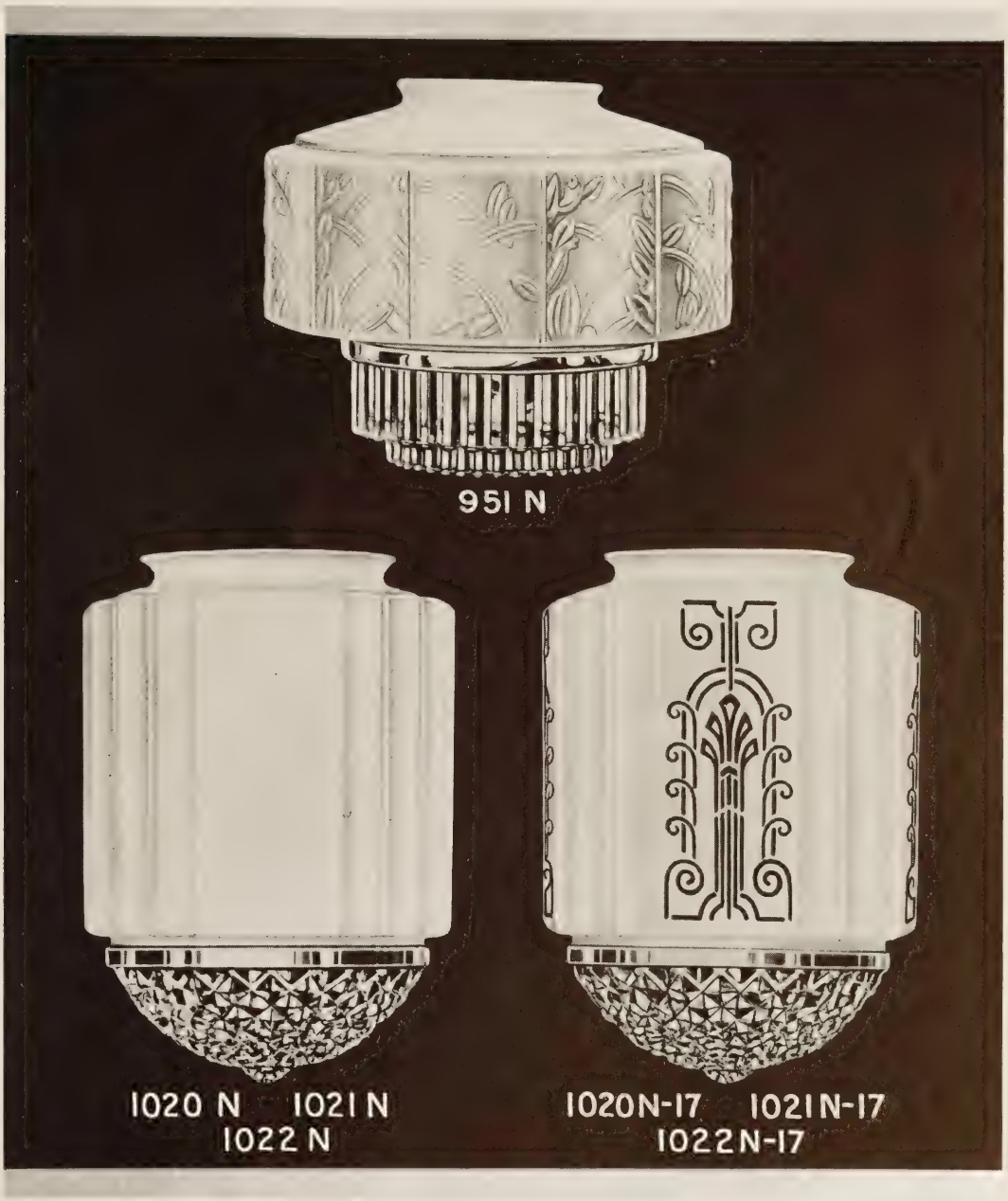
One-Piece Units—furnished in Crystal Glass White Enameled, properly fired; Clear Crystal Reflectors.

Decoration Numbers and Descriptions:

Number	Diameter Inches	Fitter Inches	Depth Inches	Lamp Recommendation Watts	Quantity to Standard Package	Approximate Shipping Weight
141 C-3	9	4	5¼	75–100	12	32 lbs.
145 C-3	14	6	7½	200	2	14 lbs.

ORDER BY NUMBER AND DECORATION NUMBER

Crystal Bottom Units for Direct Light—Nicco Opal and Crystal Glass



Two-Piece Units, Nicco Opal Top Plain and Decorated, Crystal Glass Bottom, joined with Spun Brass Nickel Plated Ring.

Decoration Numbers and Descriptions:

951

N Nicco, Opal
N-2 Nicco, Decorated Ecru Tinting

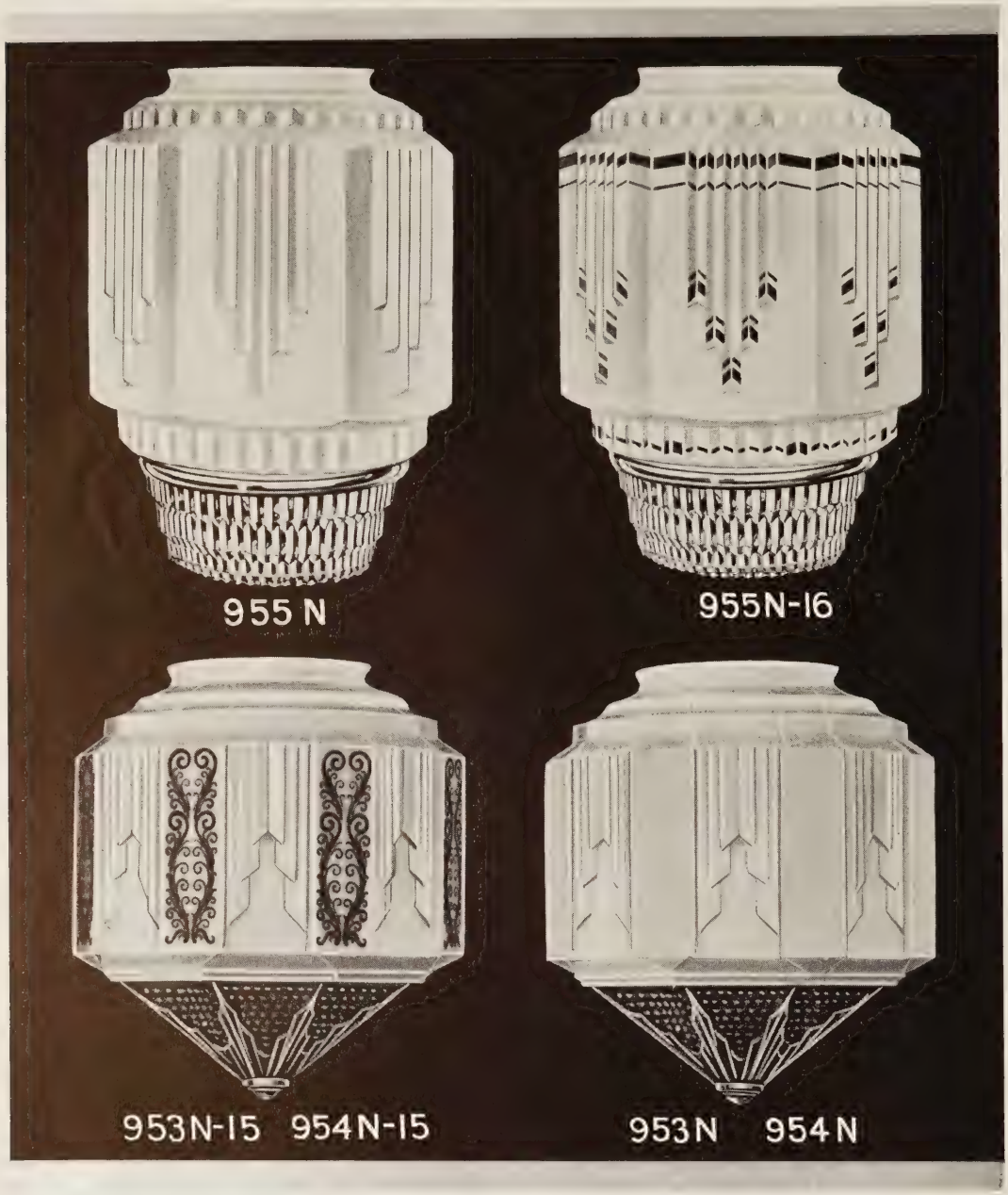
1020-1021-1022

N Nicco Opal
N-17 Nicco, Shield Decoration in Black

Number	Diameter Inches	Fitter Inches	Depth Inches	Lamp Recommendation Watts	Quantity to Standard Package	Approximate Shipping Weight
951	14	6	11	200–300	1	12 lbs.
1020	9	6	12¼	200–300	1 & 2	7 & 14 lbs.
1021	10½	6	15¾	200–300	1	9 lbs.
1022	7⅛	4	9½	75–100	6	21 lbs.

ORDER BY NUMBER AND DECORATION NUMBER

Crystal Bottom Units for Direct Light—Nicco Opal and Crystal Glass



Two-Piece Units, Nicco Opal Top Plain and Decorated, Crystal Glass Bottom. No. 955 Bowls are joined with Spun Brass Nickel Plated Ring.

Nos. 953 and 954 are without Metal Connecting Ring: the Crystal Bowl is inserted in bottom of the Nicco Opal Bowl.

Decoration Numbers and Descriptions:

953-954

N Nicco Opal
N-15 Nicco, Shield Decoration in Black

955

N Nicco Opal
N-16 Nicco, Shield Decoration in Black

Number	Diameter Inches	Fitter Inches	Depth Inches	Lamp Recommendation Watts	Quantity to Standard Package	Approximate Shipping Weight
953	12	6	13	200–300	1	10 lbs.
954	8	4	8¾	75–150	6	21 lbs.
955	10	6	13	200–300	1	8 lbs.

ORDER BY NUMBER AND DECORATION NUMBER

Kitchen, Breakfast Room and Bed Room Shades
Nicco Opal Glass

Decoration Numbers and Descriptions:

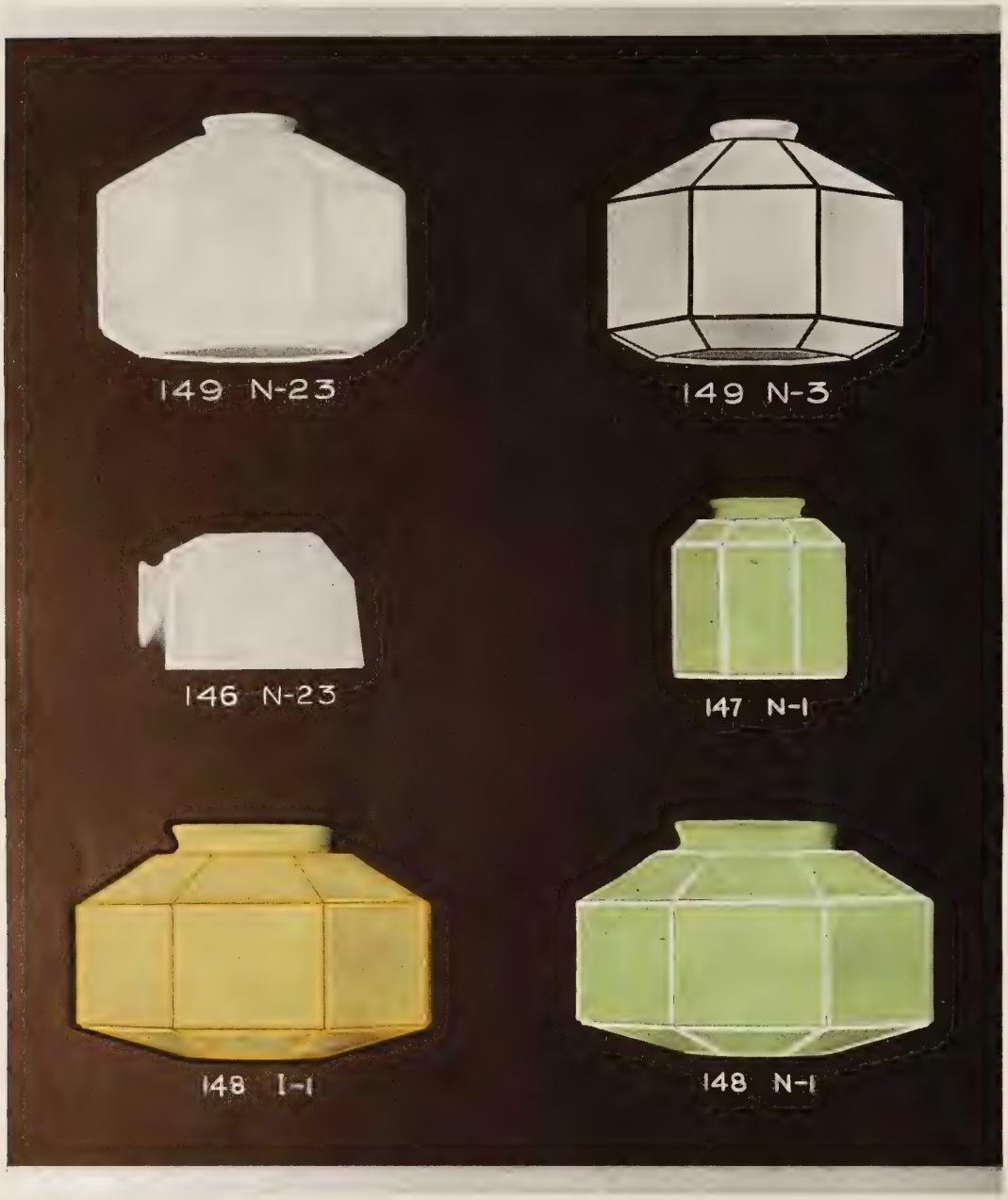
Decoration N-24, Nicco, Ivory Tint, White Stripes

Number	Diameter Inches	Fitter Inches	Depth Inches	Quantity to Standard Package	Approximate Shipping Weight
105 N-24	7	2¼	4¾	12	19 lbs.
120 N-24	8⅝	4	6¼	12	20 lbs.
201 N-24	6 3/16	2¼	4½	12	12 lbs.
206 N-24	4	2¼	4	12	10 lbs.
789 N-24	10	10	4	12	65 lbs.
846 N-24	5¾ x 4	2¼	3¼	12 & 36	10 & 26 lbs.
902 N-24	8½	4	7¼	8	25 lbs.
1110 N-24	10	4	5¼	6	16 lbs.
1112 N-24	12	6	5½	3	14 lbs.
1113 N-24	3¾	3¼	6¼	12	15 lbs.
1114 N-24	14	6	6⅜	3	15 lbs.
1116 N-24	16	6	7½	4	17 lbs.

NOTE:—No. 789 is furnished with ½″ hole in bottom. Price includes hole.

ORDER BY NUMBER AND DECORATION NUMBER

Kitchen and Bathroom Shades—Nicco Opal and Ivory Glass



Decoration Numbers and Descriptions:

N	Nicco Opal
N-1	Nicco, Jade Tint, White Stripes
N-3	Nicco, Black Lines
N-23	Nicco, Platinum Lines
I	Ivory
I-1	Ivory, Brown Lines

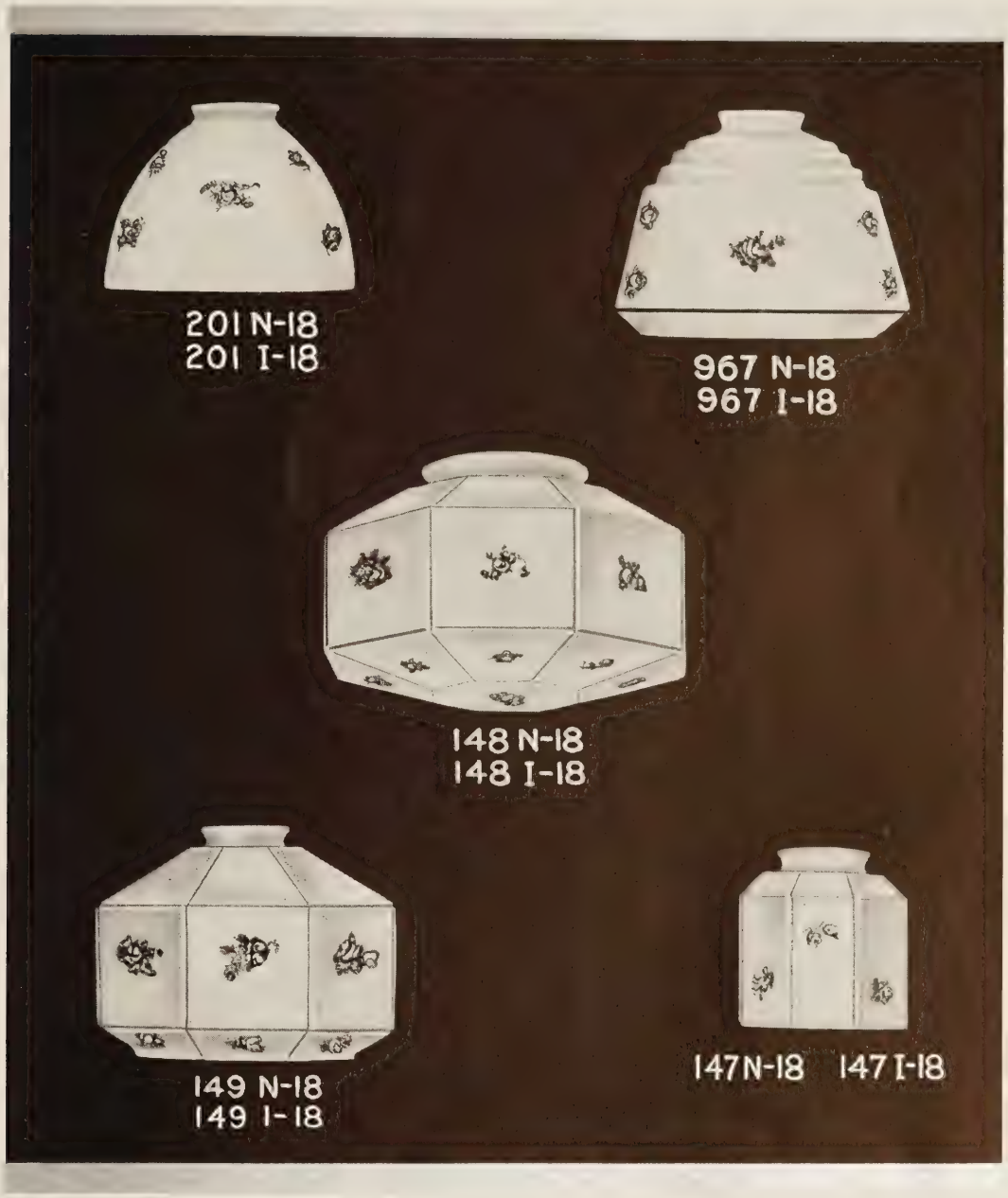
Number	Diameter Inches	Fitter Inches	Depth Inches	Quantity to Standard Package	Approximate Shipping Weight
146	5¼ x 4	2¼	3¼	12 & 36	10 & 34 lbs.
147	4	2¼	4	12 & 36	12 & 34 lbs.
148	9	4	5½	12	27 lbs.
***149**	7¼	2¼	5¼	12	21 lbs.

*No. 149 has 5¼" bottom opening.

Above numbers can also be furnished in color effects other than listed.

ORDER BY NUMBER AND DECORATION NUMBER

Kitchen, Breakfast Room and Bathroom Shades
Nicco Opal and Ivory Glass



Decoration Numbers and Descriptions:

N-18 Nicco Opal, Dresden Flower Decoration

I-18 Ivory, Dresden Flower Decoration

Number	Diameter Inches	Fitter Inches	Depth Inches	Quantity to Standard Package	Approximate Shipping Weight
147	4	2¼	4	12 & 36	12 & 34 lbs.
148	9	4	5½	12	27 lbs.
***149**	7¼	2¼	5¼	12	21 lbs.
201	6	2¼	4½	12	12 lbs.
‡967	7	2¼	5¼	12	19 lbs.

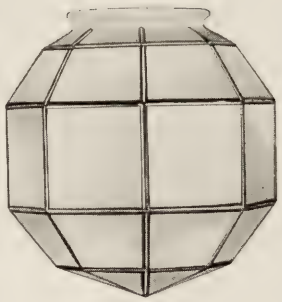
*No. 149 has 5¼″ bottom opening.
‡No. 967 has 5½″ bottom opening.

ORDER BY NUMBER AND DECORATION NUMBER

Kitchen, Breakfast Room and Bathroom Shades
Nicco Opal and Ivory Glass

105—18 105—20

106—19



601 N-3 603 N-3

864-C

9-inch Ball A

121—N-18

865—N-30

846—N-30

120—N-30

Decoration Numbers and Descriptions:

105-106-120
- **18** Dolly Varden, Canary Tinting
- **19** Dolly Varden, Pink Tinting
- **20** Dolly Varden, Blue Tinting

9-inch Ball A, Bird of Paradise, Yellow Stripes, Blue Tinting
864-C, Love Birds, Green Stripes, Rose Tinting

120-846-865
- **N** Nicco Opal
- **N-30** Nicco, Black Lines
- **N-31** Nicco, Green Lines
- **N-32** Nicco, Ecru Lines

121
- **N** Nicco Opal
- **N-18** Nicco, Dresden Flowers, Shield in Ecru
- **N-19** Nicco, Dresden Flowers, Shield in Pink
- **N-20** Nicco, Dresden Flowers, Shield in Blue
- **N-21** Nicco, Dresden Flowers, Shield in Green

120-846
- **I** Ivory
- **I-30** Ivory, Black Lines
- **I-31** Ivory, Green Lines
- **I-32** Ivory, Ecru Lines

601-603
- **C-2** Crystal Etched, Clear Stripe
- **N-3** Nicco, Gold Stripe
- **N-30** Nicco, Black Stripe

Number	Diameter Inches	Fitter Inches	Depth Inches	Quantity to Standard Package	Approximate Shipping Weight
9-inch Ball A	9	4	9	6	18 lbs.
105	7	2¼	4¾	12	19 lbs.
106	3⅞	2¼	4¼	12	9 lbs.
120	8⅝	4	6¼	12	20 lbs.
121	6½	4	8	12	19 lbs.
601	5½	3¼	6	12	18 lbs.
603	8	4	8	4	20 lbs.
846	5¾ x 4	2¼	3¼	12 & 36	10 & 26 lbs.
864	6½	4	8½	12	24 lbs.
865	8	4	6	12	22 lbs.

ORDER BY NUMBER AND DECORATION NUMBER

Nicco Opal and Colored Glass—For Commercial Uses

789-N—10″
½″ Hole in Bottom

780½-N—14″
782 -N—18″

784-N—12″
785-N—16″

786-N—20″

779-N—12″
780-N—14″
781-N—16″
783-N—20″
787-N—8″
788-N—10″
790-N—24″

128-N

5-inch to 16-inch Ball-N

Decoration Numbers and Descriptions:

Ball Globes—6″, 8″, 10″, 12″, 14″ and 16″
CRI Crystal Roughed Inside
N Nicco Opal
R Ruby, Plain
G Green, Plain

Ball Globes—5″, 7″ and 9″
N Nicco Opal

Unit—128
N Nicco Opal

Indirect Bowls—780½, 782, 784, 785, 786, 789
N Nicco Opal

Indirect Bowls—779, 780, 781, 783, 787, 788, 790
N Nicco Opal

Number	Diameter Inches	Fitter Inches	Depth Inches	Quantity to Standard Package	Approximate Shipping Weight
5-inch Ball	5	3¼	5	12	13 lbs.
6-inch Ball	6	3¼ & 4	6	12	15 lbs.
7-inch Ball	7	3¼	7	12	25 lbs.
8-inch Ball	8	3¼ & 4	8	8	21 lbs.
9-inch Ball	9	4, 5, & 6	9	6	18 lbs.
10-inch Ball	10	4, 5, 6 & 7	10	4	17 lbs.
12-inch Ball	12	4, 5, 6, 7 & 8	12	2	12 lbs.
14-inch Ball	14	6, 7, 8 & 9	14	1	10 lbs.
16-inch Ball	16	6, 7, 8, 9 & 9⅜	16	1	12 lbs.
128	9	4	7	8	16 lbs.
779	12	12	6	12	70 lbs.
780	14	14	7	10	65 lbs.
780½	14	14	5	9	70 lbs.
781	16	16	8	6	60 lbs.
782	18	18	7	6	70 lbs.
783	20	20	10	6	70 lbs.
784	12	12	4	18	80 lbs.
785	16	16	5½	12	80 lbs.
786	20	20	8	6	70 lbs.
787	8	8	4	18	75 lbs.
788	10	10	5	12	65 lbs.
789	10	10	4	12	65 lbs.
790	24	24	12	3	75 lbs.

NOTE:—When ordering Balls be sure to state Fitter desired, as well as Glass. Balls can be furnished with Aluminum or Copper Ring if desired. Price quoted on application.

ORDER BY NUMBER AND DECORATION NUMBER

Bowls and Shades for Breakfast Room, Dining Room and Bed Room
Nicco Opal, Ivory and Crystal Glass, Plain and Decorated

Decoration Numbers and Descriptions:

61-62

Dec. A Crystal Roughed Inside White Enameled, border plain
Dec. B Crystal Roughed Inside Ivory Enameled, border plain
Dec. C Crystal Roughed Inside Rose Enameled, border plain

103½-104½-774-775-1107

N Nicco Opal
N-13 Nicco, Black Lines
N-23 Nicco, Platinum Lines

103½-104½-774-775-1107

I Ivory
I-1 Ivory, Brown Lines

Number	Diameter Inches	Fitter Inches	Depth Inches	Quantity to Standard Package	Approximate Shipping Weight
61	12	12	4¼	10	26 lbs.
62	6	1⅝	3	72	54 lbs.
103½	4½	1⅝	4	12	10 lbs.
104½	4¼	1⅝	4¼	12	10 lbs.
‡774	8	8	3	18	75 lbs.
‡775	10	10	3¾	12	65 lbs.
1107	9¾	9¾	3	12	65 lbs.

‡NOTE—Nos. 774 and 775 are furnished with ½″ hole in bottom. Price includes hole.

ORDER BY NUMBER AND DECORATION NUMBER

Shades for Study and Reading Lamps—Utopia Opal and Nicco Opal Glass: Globes and Cylinders Crystal Antique and Amber Antique Glass

Decoration Numbers and Descriptions:

619-758 N Nicco Opal

200-201 N Nicco Opal; N-30 Nicco, Black Lines

202-203-203½-209-210-211-213 U Utopia Opal

864 Crystal Antique, Amber Antique

Number	Diameter Inches	Fitter Inches	Depth Inches	Length Shank Inches	Quantity to Standard Package	Approximate Shipping Weight
200	5¾	2¼	4		12 & 36	9 & 25 lbs.
201	6 3/16	2¼	4½		12	12 lbs.
202	8	2¼	6¼		6	11 lbs.
203	10	2¼	5¼		6	14 lbs.
203½	10	3¼	5¼		6	14 lbs.
209	9⅜	2⅝	6⅜	⅞	6	14 lbs.
210	10	2¾	5¾		6	14 lbs.
211	10	2¾	6⅛	1½	6	14 lbs.
213	10	3¼	6¼		6	14 lbs.
619	7¾	2¼	5¼		36	45 lbs.
758	5¾	2¼	4¾		12 & 36	9 & 25 lbs.
864	6½	4	8½		12	24 lbs.

Straight and Cone Cylinders, Crystal Antique and Amber Antique Glass.

Straight Cylinders furnished in diameters 3, 4, 5, 6, 7, 8 and 9″, in length required. Cone Cylinders furnished in two sizes—
3½″ Bottom, 5″ Top diameter, 8″ high.
4″ Bottom, 5½″ Top diameter, 8″ high.

NOTE:—When ordering Cylinders specify size, designating both diameter and height, and Glass desired. Order Shades and Globes by Number and Decoration Number

Exit and Sign Balls—Nicco Opal and Colored Glass

841—R-1 Exit—3″ Letters, Black or White
948—G-2 Exit—4″ Letters, Black or White
For Side Bracket

841—R-1 Exit—3″ Letters, Black or White
948—G-2 Exit—4″ Letters, Black or White
For Ceiling Fitter
(See Special Note)

841—N-4—3″ Letters, Black
948—N-4—4″ Letters, Black
For Side Bracket

841—R-1 Stairs—3″ Letters, Black or White
948—R-1 Stairs—4″ Letters, Black or White
For Side Bracket

6″ Exit Ball R, 3″ or 4″ Letters, Black or White
8″ Exit Ball R, 4″ or 6″ Letters, Black or White
(See Special Note)

841—N-5—3″ Letters, Black
948—N-5—4″ Letters, Black
For Side Bracket

871—G-2
3″ Letters, Green

842—R-1—3″Letters, Red

872—R-1
3″ Letters, Red

Decoration Numbers and Descriptions:

841-948

R-1 Ruby, Roughed Inside "Exit" in Black or White
G-2 Green, Roughed Inside "Exit" in Black or White
N-4 Nicco, "Men" in Black
N-5 Nicco, "Women" in Black
N-6 Nicco, "Exit" in Black
N Nicco Opal

6″ and 8″ Ball

R Ruby, Roughed Inside "Exit" in Black, one or two sides

842

R-1 Ruby, Roughed Inside "Exit" on Black Enameled background
G-2 Green, Roughed Inside "Exit" on Black Enameled background

871

C-1 Crystal, Roughed Inside "Up" on Black Enameled background
G-2 Green, Roughed Inside, "Up" on Black Enameled background

872

R-1 Ruby, Roughed Inside "Down" on Black Enameled background

Number	Diameter Inches	Fitter Inches	Depth Inches	Quantity to Standard Package	Approximate Shipping Weight
6″ Ball	6	3¼ & 4	6	12	16 lbs.
8″ Ball	8	3¼ & 4	8	8	22 lbs.
841	4½ x 4½	3¼	5¼	6 & 12	9 & 16 lbs.
842	6	3¼	6	6 & 12	15 & 21 lbs.
871	6	3¼	6	6 & 12	15 & 21 lbs.
872	6	3¼	6	6 & 12	15 & 21 lbs.
948	5½ x 5½	4	7	12	21 lbs.

SPECIAL NOTE:—When ordering Nos. 841 and 948 be sure to state style Fitter on which Globes are to be used, whether CEILING TYPE or SIDE BRACKET. On Colored Globes state color lettering desired, BLACK or WHITE. When ordering 6″ and 8″ Ball Globes—state size Fitter wanted, size lettering desired, color lettering—BLACK or WHITE, and if to be lettered one or two sides. Also specify whether desired INVERTED, as shown, or for use in UPRIGHT POSITION.

ORDER BY NUMBER AND DECORATION NUMBER

Exit and Sign Balls—Nicco Opal and Colored Glass

848—N-6—6″ Letters Black
849—N-6—5″ Letters Black
850—N-6—5″ Letters Black
For Side Bracket
Also furnished for Ceiling Fitter

947A—R-1—4″ Letters, White or Black
947A—G-2—4″ Letters, White or Black

841-N Numeral Dec. 22
2½″ Figures Black
For Side Bracket
Furnished any numeral in three figures

847—R-1—2″ Letters, White or Black

949—N-4 Barber Shop
949½ N-4—Barber Shop
Also furnished—N- Plain; N-1 Tourists Rooms; N-3 Beauty Shop
(See Special Note)

958—R-1—3″ Letters White or Black
958—G-2—3″ Letters White or Black

Decoration Numbers and Descriptions:

848-849-850-947A-958

R-1 Ruby, Roughed Inside "Exit" in Black or White
G-2 Green, Roughed Inside "Exit" in Black or White
N-6 Nicco "Exit" in Black

841

N Nicco, Numerals in Black

847

R Ruby, Roughed Inside
R-1 Ruby, Roughed Inside "Exit" in Black or White

949-949½

N Nicco Opal
N-1 Nicco TOURISTS ROOMS—Lettering and border in Blue, Red and Blue shield in center
N-3 Nicco BEAUTY SHOP—Lettering and border in Red and Blue
N-4 Nicco BARBER SHOP—Lettering in Black, border in Red and Blue

Number	Diameter Inches	Fitter Inches	Depth Inches	Quantity to Standard Package	Approximate Shipping Weight
841	4½ x 4½	3¼	5¼	6 & 12	9 & 16 lbs.
847	4½	2¼	4¼	12	9 lbs.
848	7 x 8	4	9½	6	26 lbs.
849	7¼ x 6½	3¼	8⅜	8	27 lbs.
850	7¼ x 6½	4	8⅜	8	27 lbs.
947-A	7 x 7	4	7¼	8	30 lbs.
958	6	3¼	6	12 & 27	21 & 43 lbs.
949	12	6	12	1 & 2	9 & 17 lbs.
949½	12	4	12	1 & 2	9 & 17 lbs.

SPECIAL NOTE:—Nos. 949 and 949½ are lettered for use in UPRIGHT or INVERTED position—when ordering be sure to state position in which Globe is to be used.

When ordering Nos. 848, 849 and 850, state style Fitter on which Globes are to be used, whether CEILING FITTER or SIDE BRACKET. On Colored Globes state color lettering desired. BLACK or WHITE.

ORDER BY NUMBER AND DECORATION NUMBER

Terms

Terms, 1% if paid in 15 days; Net 30 days from date of bill. All shipments F. O. B. cars our factory.

Deliveries to carriers contingent upon strikes, accidents and delays unavoidable or beyond our control. All goods are carefully inspected and checked before packing. They are securely packed to insure delivery in perfect condition to the carrier. They are sold only F. O. B. CARS OUR FACTORY, and we assume no responsibility for safe arrival, as our responsibility ceases absolutely as soon as a bill of lading is issued.

YOU SHOULD THOROUGHLY INSPECT EACH SHIPMENT AS SOON AS RECEIVED

If shipments are not delivered to you in good order, and in accordance with items shown on your invoice, we recommend that you proceed as follows:

1st. Sign Railroad receipt "short" or "damaged" and have your freight agent mark the freight bill accordingly.

2nd. If packages are delivered in apparent good order, but, on opening, contents are found missing, damaged, or broken, call freight agent to view same, and have him mark freight bill relative to such "Concealed Damage." This is absolutely necessary. Unless you do this the Transportation Company will not entertain your claim for loss or damage. If the agent will not make an inspection, then you should make an affidavit that you notified him (on a certain date) and he failed to do so. This with other papers will properly support your claim.

3rd. We will, on request send you a Duplicate Bill of Lading, and also if desired, send a duplicate invoice, and assist you in every possible manner in collecting your claims for damage, but are not responsible for collection of claims or replacement of material.

4th. Charge the claim against the Transportation Company on your books, sending a bill of same to your freight agent, with the original Bill of Lading, paid freight bill and copy of our invoice to support it.

5th. Make your claim promptly, for the Transportation Company will not consider a claim unless presented within four months from date of shipment.

Should breakage be of a serious nature, pay the charges anyway and then write us for instruction.

NEVER REFUSE A SHIPMENT

If you should refuse a shipment because of damages, the Transportation Company will pay no attention except to ask for disposition of the goods, and if no disposition is made, the law allows them to sell the goods for their freight and storage charges. In order to secure attention, the goods MUST FIRST BE RECEIVED AND FREIGHT PAID.

Always remember that they are your goods under the law, and you must show a disposition to assist in adjusting the matter.

We shall be pleased to co-operate with you in overcoming breakages, or the mishandling of any of our shipments.

6M-6-38

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